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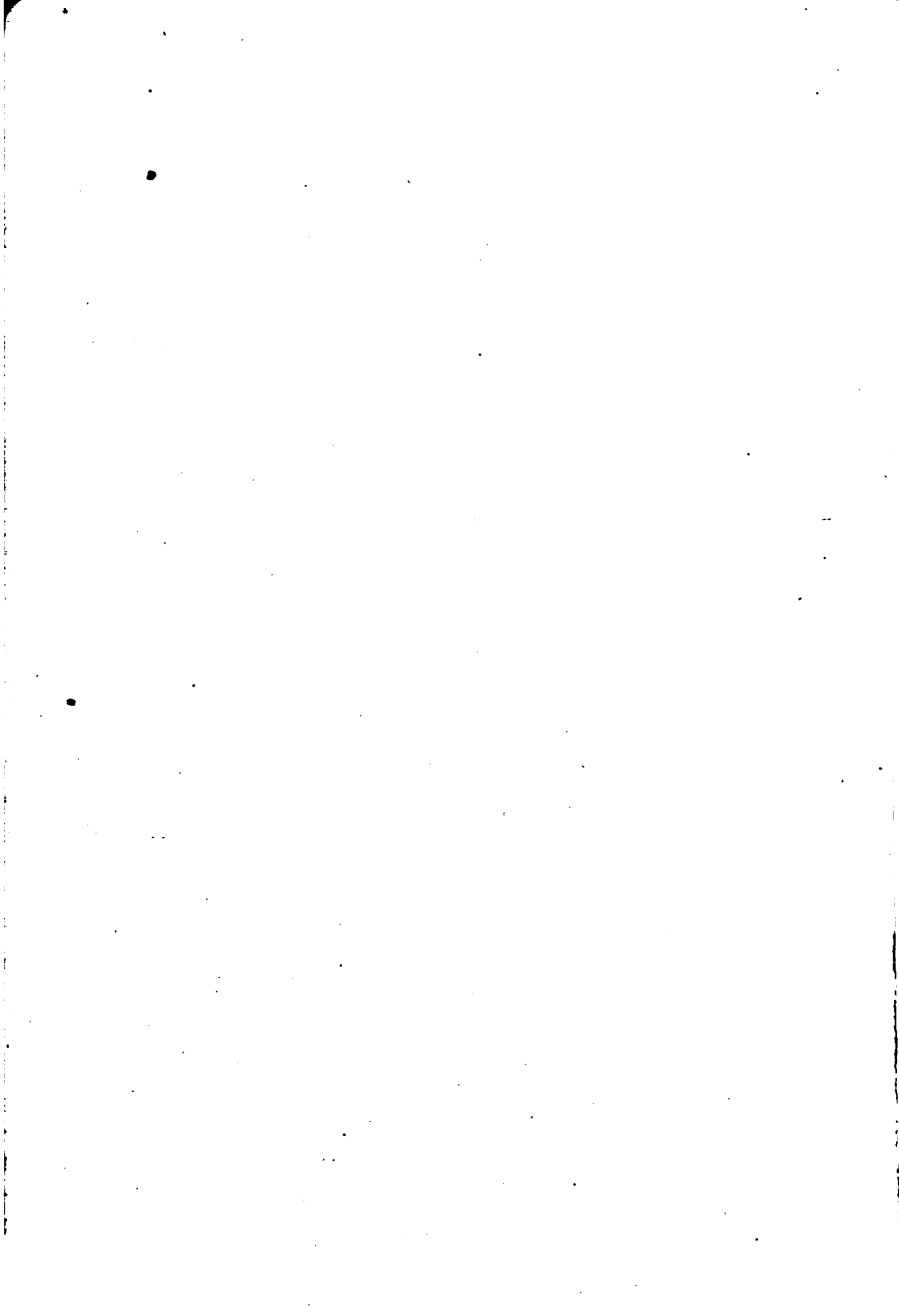
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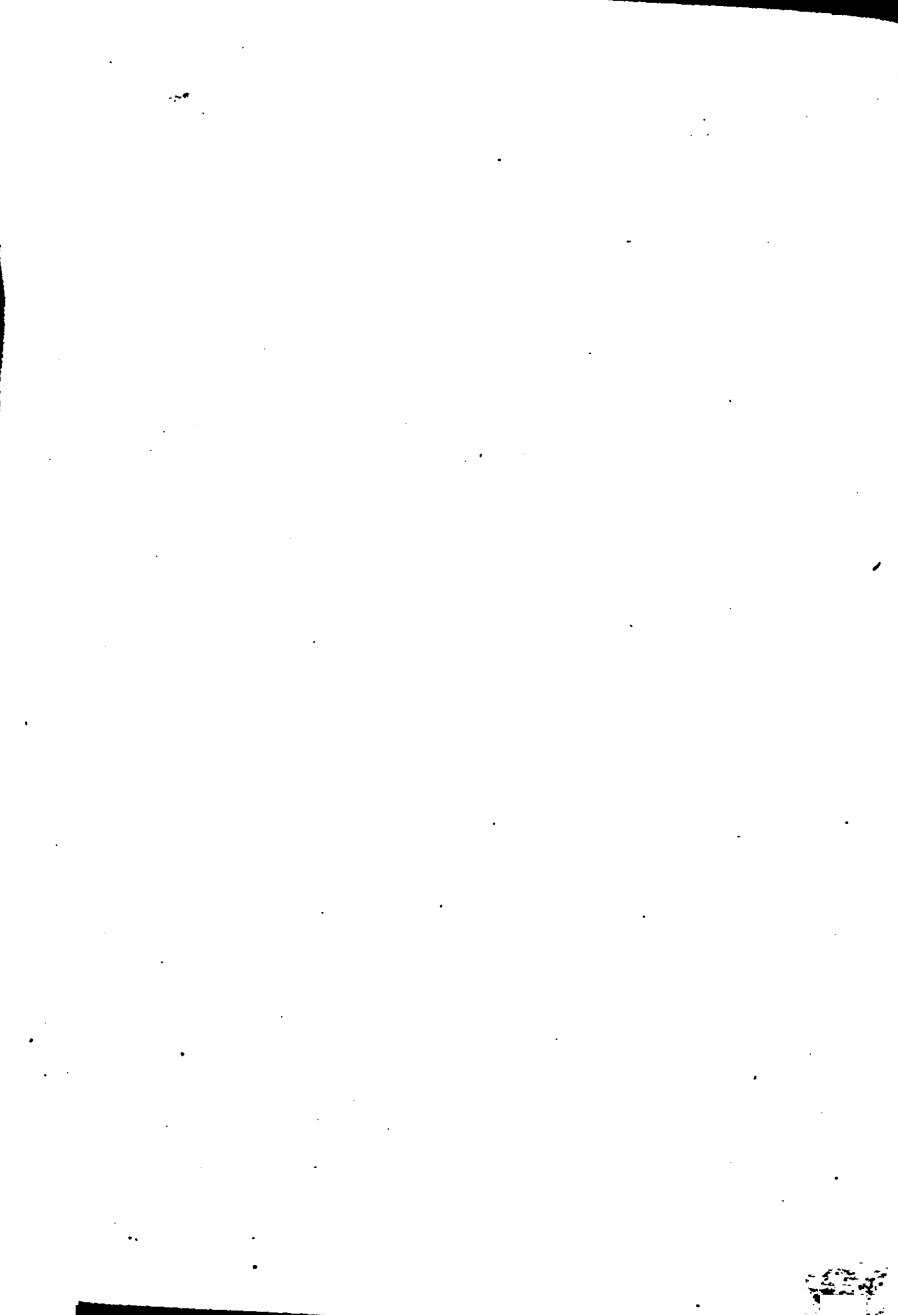




A. E. H. Lawrence.

Geo. D. Whittle
Oct. 1917

presented by R. M. Bowman



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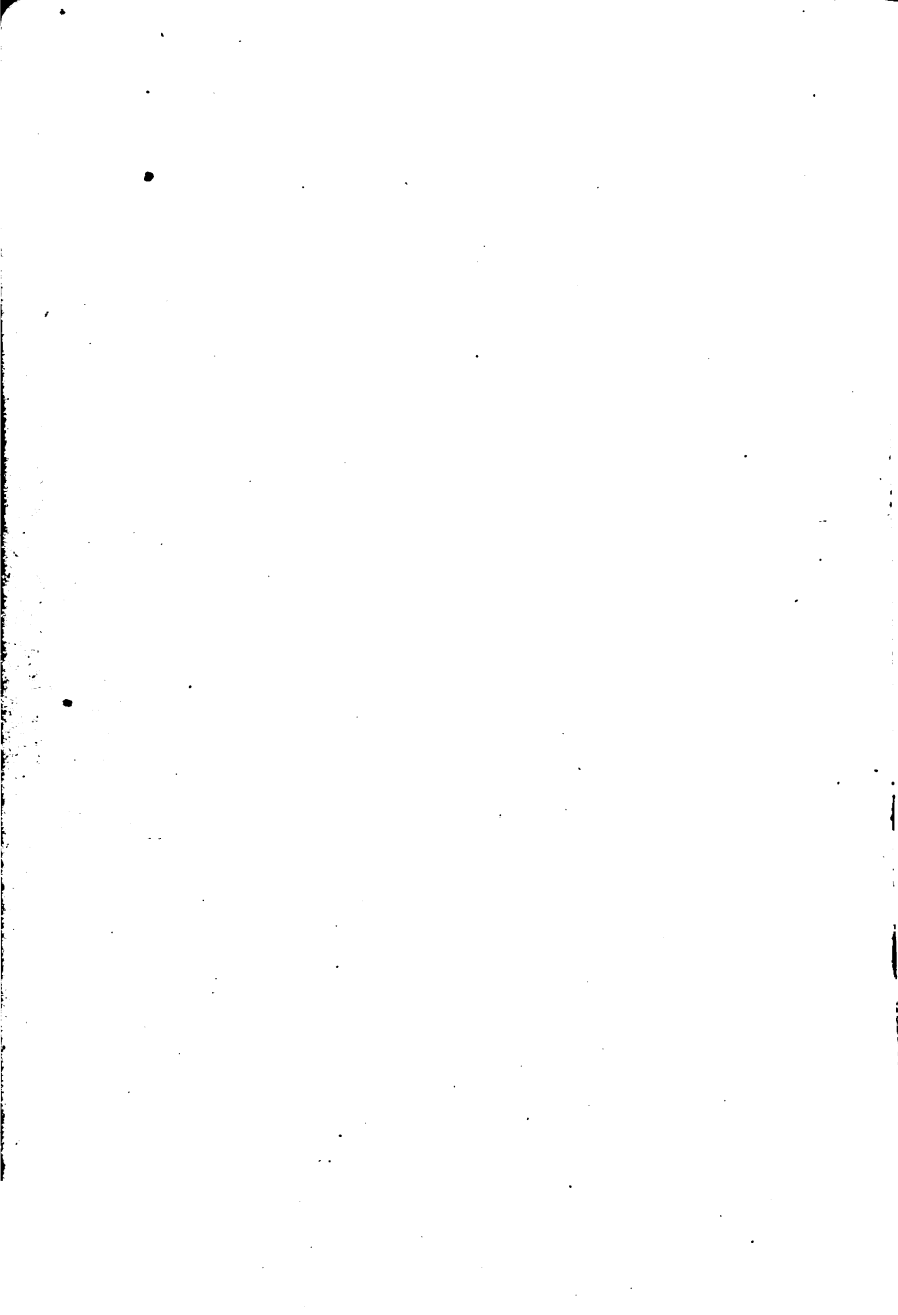
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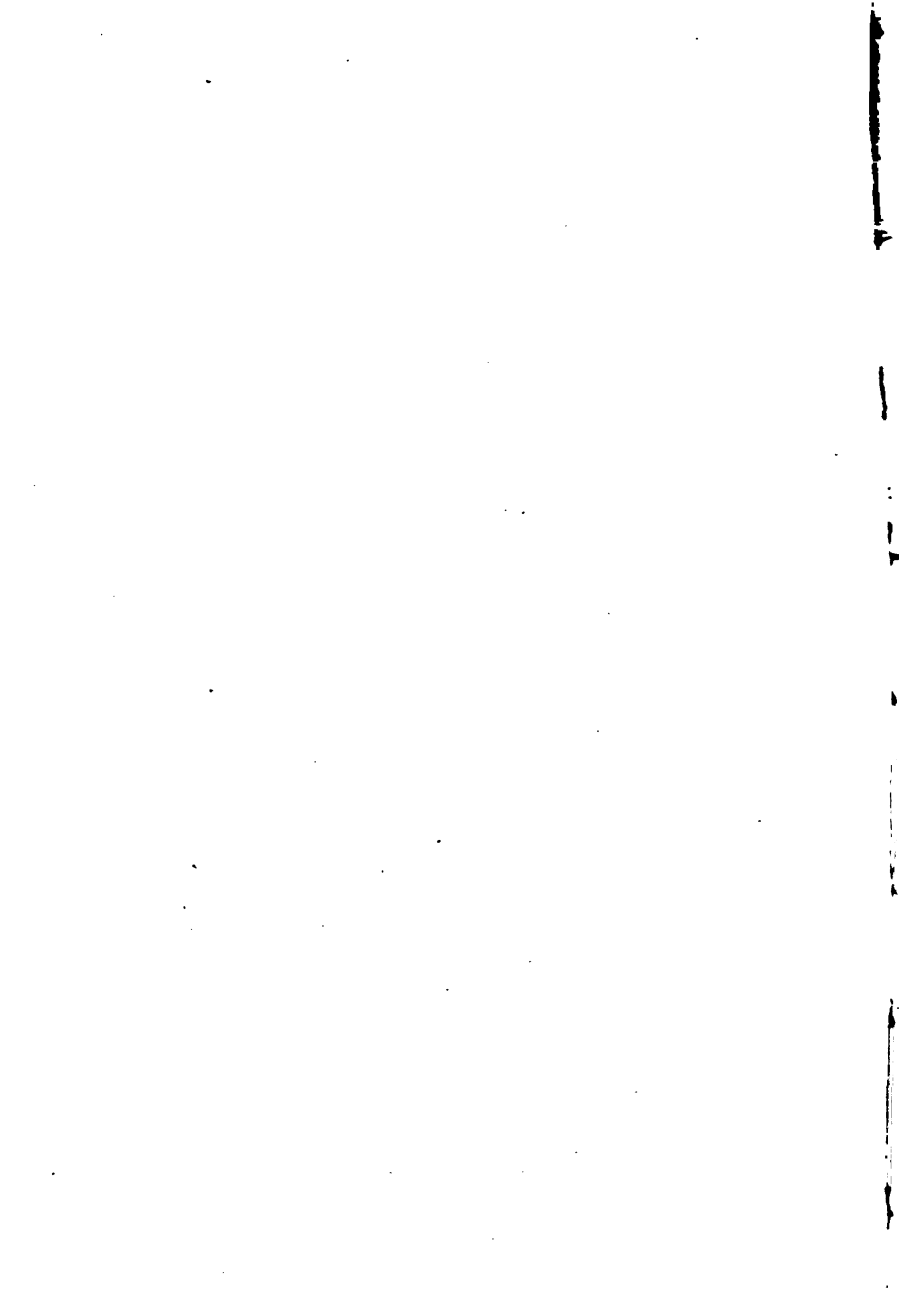
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PREFACE TO THIRD EDITION.

The success achieved by the previous editions of this work encouraged the author to undertake its extension to 100 feet. The extended part has, however, been tabulated by steps of $\frac{1}{16}$ " instead of $\frac{1}{32}$ " as the latter for lengths of over 50 feet would have little value, if any.

The computation and checking of the extended part has been carried out in the same careful manner as the old tables and it is therefore believed that it is as accurate as the old tables proved to be.

The parallel system of tabulation, *visa* the placing of the squares and logs. of the same numbers opposite each other, has been retained, this arrangement offering a number of advantages, namely: (1) The square and the log. of a number are often needed at the same time. (2) In many calculations the square of a number is given and its log. required or vice versa, the number itself being of no use to the calculator; the parallel arrangement of the tables enables in such cases the reading of the log. directly from its square or vice versa. (3) The log. of the square can be obtained by multiplying its corresponding log. item by 2.

In an article by Mr. F. D. Davis entitled: "Smoley's Tables; Some Convenient Methods by Their Use," published in the *Engineering News* of Dec. 25, 1902, Mr. Davis is discussing this special feature of these tables (*visa* their parallel arrangement) demonstrating the usefulness resulting from it by applying the tables to a number of examples relating mainly to mensuration. But in the opinion of the writer the parallel combination of the tables finds its most effective field of application in the solution of triangles for the purpose of figuring the data required for structural detail drawings. The most general problem we have here to deal with is this: With two given sides of a right-angle triangle, usually the main dimensions of the frame (as in a roof truss the half span and rise), to find: 1, the hypotenuse; 2, the bevel or slope; 3, the log. functions of the angles of the triangle, the latter for the purpose of figuring the diagonals of the frame, etc. Not only does the parallel combination of the tables enable the figuring of these three data in one process of calculation, but they are mutually checking

0'

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	—	0.00000	8.92082	0.006944	9.22185	0.027778
$\frac{1}{32}$	7.41567	0.000007	8.93418	0.007385	9.22858	0.028653
$\frac{1}{16}$	7.71670	0.000027	8.94715	0.007840	9.23521	0.029541
$\frac{3}{32}$	7.89279	0.000061	8.95974	0.008308	9.24174	0.030443
$\frac{1}{8}$	8.01773	0.000109	8.97197	0.008789	9.24818	0.031359
$\frac{5}{32}$	8.11464	0.000170	8.98387	0.009284	9.25452	0.032288
$\frac{3}{16}$	8.19382	0.000244	8.99545	0.009793	9.26077	0.033230
$\frac{7}{32}$	8.26077	0.000332	9.00673	0.010315	9.26693	0.034186
$\frac{1}{4}$	8.31876	0.000434	9.01773	0.010851	9.27300	0.035156
$\frac{9}{32}$	8.36991	0.000549	9.02845	0.011400	9.27899	0.036140
$\frac{5}{16}$	8.41567	0.000678	9.03892	0.011963	9.28490	0.037137
$1\frac{1}{32}$	8.45706	0.000821	9.04914	0.012539	9.29073	0.038147
$\frac{3}{8}$	8.49485	0.000977	9.05912	0.013129	9.29648	0.039171
$1\frac{3}{32}$	8.52961	0.001146	9.06888	0.013733	9.30216	0.040209
$\frac{7}{16}$	8.56180	0.001329	9.07843	0.014350	9.30776	0.041260
$1\frac{5}{32}$	8.59176	0.001526	9.08777	0.014981	9.31330	0.042324
$\frac{1}{2}$	8.61979	0.001736	9.09691	0.015625	9.31876	0.043403
$1\frac{7}{32}$	8.64612	0.001960	9.10586	0.016283	9.32415	0.044495
$\frac{9}{16}$	8.67094	0.002197	9.11464	0.016954	9.32948	0.045600
$1\frac{9}{32}$	8.69442	0.002448	9.12324	0.017639	9.33475	0.046719
$\frac{5}{8}$	8.71670	0.002713	9.13167	0.018338	9.33995	0.047852
$2\frac{1}{32}$	8.73789	0.002991	9.13994	0.019050	9.34509	0.048998
$1\frac{1}{16}$	8.75809	0.003282	9.14806	0.019775	9.35017	0.050157
$2\frac{3}{32}$	8.77740	0.003588	9.15603	0.020515	9.35519	0.051331
$\frac{3}{4}$	8.79588	0.003906	9.16386	0.021267	9.36015	0.052517
$2\frac{5}{32}$	8.81361	0.004239	9.17154	0.022034	9.36506	0.053718
$1\frac{3}{16}$	8.83064	0.004584	9.17910	0.022814	9.36991	0.054932
$2\frac{7}{32}$	8.84703	0.004944	9.18652	0.023607	9.37471	0.056159
$\frac{7}{8}$	8.86283	0.005317	9.19382	0.024414	9.37946	0.057400
$2\frac{9}{32}$	8.87807	0.005703	9.20100	0.025235	9.38415	0.058655
$1\frac{5}{16}$	8.89279	0.006104	9.20806	0.026069	9.38880	0.059923
$3\frac{1}{32}$	8.90703	0.006517	9.21501	0.026917	9.39339	0.061205
1	8.92082	0.006944	9.22185	0.027778	9.39794	0.062500

0'

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	9.39794	0.062500	9.52288	0.111111	9.61979	0.173611
$\frac{1}{32}$	9.40244	0.063809	9.52626	0.112854	9.62249	0.175788
$\frac{1}{16}$	9.40689	0.065131	9.52961	0.114610	9.62518	0.177979
$\frac{3}{32}$	9.41130	0.066467	9.53294	0.116380	9.62786	0.180183
$\frac{1}{8}$	9.41567	0.067817	9.53624	0.118164	9.63051	0.182400
$\frac{5}{32}$	9.41999	0.069180	9.53952	0.119961	9.63315	0.184631
$\frac{3}{16}$	9.42427	0.070557	9.54277	0.121772	9.63578	0.186876
$\frac{7}{32}$	9.42851	0.071947	9.54600	0.123596	9.63839	0.189134
$\frac{1}{4}$	9.43270	0.073351	9.54921	0.125434	9.64098	0.191406
$\frac{9}{32}$	9.43686	0.074768	9.55239	0.127285	9.64356	0.193692
$\frac{5}{16}$	9.44097	0.076199	9.55555	0.129150	9.64612	0.195991
$\frac{11}{32}$	9.44505	0.077644	9.55868	0.131029	9.64866	0.198303
$\frac{3}{8}$	9.44909	0.079102	9.56180	0.132921	9.65120	0.200629
$\frac{13}{32}$	9.45310	0.080573	9.56489	0.134827	9.65371	0.202969
$\frac{7}{16}$	9.45706	0.082058	9.56796	0.136746	9.65622	0.205322
$\frac{15}{32}$	9.46099	0.083557	9.57100	0.138679	9.65871	0.207689
$\frac{1}{2}$	9.46489	0.085069	9.57403	0.140625	9.66118	0.210069
$\frac{17}{32}$	9.46875	0.086595	9.57704	0.142585	9.66364	0.212463
$\frac{9}{16}$	9.47257	0.088135	9.58002	0.144558	9.66609	0.214871
$\frac{19}{32}$	9.47637	0.089688	9.58299	0.146545	9.66852	0.217292
$\frac{5}{8}$	9.48013	0.091254	9.58593	0.148546	9.67094	0.219727
$\frac{21}{32}$	9.48385	0.092834	9.58886	0.150560	9.67335	0.222175
$\frac{11}{16}$	9.48755	0.094428	9.59176	0.152588	9.67574	0.224637
$\frac{23}{32}$	9.49122	0.096035	9.59465	0.154629	9.67812	0.227112
$\frac{3}{4}$	9.49485	0.097656	9.59751	0.156684	9.68049	0.229601
$\frac{25}{32}$	9.49845	0.099291	9.60036	0.158752	9.68284	0.232103
$\frac{13}{16}$	9.50203	0.100939	9.60319	0.160834	9.68518	0.234619
$\frac{27}{32}$	9.50557	0.102600	9.60600	0.162930	9.68751	0.237149
$\frac{7}{8}$	9.50909	0.104275	9.60879	0.165039	9.68983	0.239692
$\frac{29}{32}$	9.51258	0.105964	9.61157	0.167162	9.69213	0.242249
$\frac{15}{16}$	9.51604	0.107666	9.61433	0.169298	9.69442	0.244819
$\frac{31}{32}$	9.51947	0.109382	9.61707	0.171448	9.69670	0.247403
1	9.52288	0.111111	9.61979	0.173611	9.69897	0.250000

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	9.69897	0.250000	9.76592	0.340278	9.82391	0.444444
$\frac{1}{32}$	9.70123	0.252611	9.76785	0.343323	9.82560	0.447923
$\frac{1}{16}$	9.70347	0.255235	9.76978	0.346381	9.82729	0.451416
$\frac{3}{32}$	9.70570	0.257874	9.77169	0.349453	9.82897	0.454922
$\frac{1}{8}$	9.70792	0.260525	9.77360	0.352539	9.83064	0.458442
$\frac{5}{32}$	9.71014	0.263180	9.77550	0.355638	9.83231	0.461975
$\frac{3}{16}$	9.71233	0.265869	9.77740	0.358751	9.83397	0.465522
$\frac{7}{32}$	9.71452	0.268561	9.77928	0.361877	9.83562	0.469082
$\frac{1}{4}$	9.71670	0.271267	9.78116	0.365017	9.83727	0.472656
$\frac{9}{32}$	9.71886	0.273987	9.78302	0.368171	9.83891	0.476244
$\frac{5}{16}$	9.72102	0.276720	9.78488	0.371338	9.84055	0.479845
$\frac{11}{32}$	9.72316	0.279466	9.78674	0.374519	9.84218	0.483459
$\frac{3}{8}$	9.72530	0.282227	9.78858	0.377713	9.84380	0.487088
$\frac{13}{32}$	9.72742	0.285000	9.79042	0.380920	9.84542	0.490729
$\frac{7}{16}$	9.72954	0.287788	9.79225	0.384142	9.84703	0.494385
$\frac{15}{32}$	9.73164	0.290588	9.79407	0.387377	9.84864	0.498054
$\frac{1}{2}$	9.73373	0.293403	9.79588	0.390625	9.85024	0.501736
$\frac{17}{32}$	9.73582	0.296231	9.79769	0.393887	9.85183	0.505432
$\frac{9}{16}$	9.73789	0.299072	9.79948	0.397163	9.85342	0.509142
$\frac{19}{32}$	9.73995	0.301927	9.80128	0.400452	9.85500	0.512865
$\frac{5}{8}$	9.74200	0.304796	9.80306	0.403754	9.85658	0.516602
$\frac{21}{32}$	9.74405	0.307678	9.80483	0.407071	9.85815	0.520352
$\frac{11}{16}$	9.74608	0.310574	9.80660	0.410400	9.85971	0.524116
$\frac{23}{32}$	9.74811	0.313483	9.80837	0.413744	9.86127	0.527893
$\frac{3}{4}$	9.75012	0.316406	9.81012	0.417101	9.86283	0.531684
$\frac{25}{32}$	9.75213	0.319343	9.81187	0.420471	9.86438	0.535489
$\frac{13}{16}$	9.75413	0.322293	9.81361	0.423855	9.86592	0.539307
$\frac{27}{32}$	9.75611	0.325256	9.81534	0.427253	9.86746	0.543138
$\frac{7}{8}$	9.75809	0.328234	9.81707	0.430664	9.86899	0.546984
$\frac{29}{32}$	9.76006	0.331224	9.81879	0.434089	9.87051	0.550842
$\frac{15}{16}$	9.76202	0.334229	9.82050	0.437527	9.87203	0.554715
$\frac{31}{32}$	9.76397	0.337246	9.82221	0.440979	9.87355	0.558601
1	9.76592	0.340278	9.82391	0.444444	9.87506	0.562500

0'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	9.87506	0.562500	9.92082	0.694444	9.96221	0.840278
$\frac{1}{32}$	9.87657	0.566413	9.92217	0.698792	9.96344	0.845059
$\frac{1}{16}$	9.87807	0.570340	9.92352	0.703152	9.96467	0.849854
$\frac{3}{32}$	9.87956	0.574280	9.92487	0.707526	9.96590	0.854662
$\frac{1}{8}$	9.88105	0.578234	9.92621	0.711914	9.96712	0.859484
$\frac{5}{32}$	9.88254	0.582201	9.92755	0.716315	9.96834	0.864319
$\frac{3}{16}$	9.88402	0.586182	9.92889	0.720730	9.96955	0.869168
$\frac{7}{32}$	9.88549	0.590176	9.93022	0.725159	9.97076	0.874030
$\frac{1}{4}$	9.88696	0.594184	9.93154	0.729601	9.97197	0.878906
$\frac{9}{32}$	9.88843	0.598206	9.93286	0.734056	9.97318	0.883796
$\frac{5}{16}$	9.88989	0.602241	9.93418	0.738525	9.97438	0.888699
$\frac{11}{32}$	9.89134	0.606289	9.93550	0.743008	9.97558	0.893616
$\frac{3}{8}$	9.89279	0.610352	9.93681	0.747504	9.97677	0.898546
$\frac{13}{32}$	9.89424	0.614427	9.93811	0.752014	9.97796	0.903490
$\frac{7}{16}$	9.89568	0.618517	9.93942	0.756538	9.97915	0.908447
$\frac{15}{32}$	9.89711	0.622620	9.94071	0.761074	9.98033	0.913418
$\frac{1}{2}$	9.89854	0.626736	9.94201	0.765625	9.98152	0.918403
$\frac{17}{32}$	9.89997	0.630866	9.94330	0.770189	9.98270	0.923401
$\frac{9}{16}$	9.90139	0.635010	9.94459	0.774767	9.98387	0.928413
$\frac{19}{32}$	9.90281	0.639167	9.94587	0.779358	9.98504	0.933438
$\frac{5}{8}$	9.90422	0.643338	9.94715	0.783963	9.98621	0.938477
$\frac{21}{32}$	9.90563	0.647522	9.94842	0.788581	9.98738	0.943529
$\frac{11}{16}$	9.90703	0.651720	9.94969	0.793213	9.98854	0.948595
$\frac{23}{32}$	9.90843	0.655931	9.95096	0.797858	9.98970	0.953674
$\frac{3}{4}$	9.90982	0.660156	9.95223	0.802517	9.99086	0.958767
$\frac{25}{32}$	9.91121	0.664395	9.95349	0.807190	9.99201	0.963874
$\frac{13}{16}$	9.91260	0.668647	9.95474	0.811876	9.99316	0.968994
$\frac{27}{32}$	9.91398	0.672913	9.95600	0.816576	9.99431	0.974128
$\frac{7}{8}$	9.91536	0.677192	9.95725	0.821289	9.99545	0.979275
$\frac{29}{32}$	9.91673	0.681485	9.95849	0.826016	9.99659	0.984436
$\frac{15}{16}$	9.91810	0.685791	9.95974	0.830756	9.99773	0.989610
$\frac{31}{32}$	9.91946	0.690111	9.96098	0.835510	9.99887	0.994798
1	9.92082	0.694444	9.96221	0.840278	0.00000	1.000000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.00000	1.0000	0.03476	1.1736	0.06695	1.3611
1/32	0.00113	1.0052	0.03580	1.1793	0.06792	1.3672
1/16	0.00226	1.0104	0.03685	1.1849	0.06888	1.3733
3/32	0.00338	1.0157	0.03788	1.1906	0.06985	1.3794
1/8	0.00450	1.0209	0.03892	1.1963	0.07081	1.3855
5/32	0.00562	1.0262	0.03995	1.2020	0.07177	1.3917
3/16	0.00673	1.0315	0.04098	1.2077	0.07272	1.3978
7/32	0.00785	1.0368	0.04201	1.2134	0.07368	1.4040
1/4	0.00895	1.0421	0.04303	1.2192	0.07463	1.4102
9/32	0.01006	1.0474	0.04406	1.2249	0.07558	1.4163
5/16	0.01116	1.0528	0.04508	1.2307	0.07653	1.4226
11/32	0.01227	1.0581	0.04610	1.2365	0.07748	1.4288
3/8	0.01336	1.0635	0.04711	1.2423	0.07843	1.4350
13/32	0.01446	1.0689	0.04813	1.2481	0.07937	1.4413
7/16	0.01555	1.0742	0.04914	1.2539	0.08031	1.4475
15/32	0.01664	1.0797	0.05015	1.2598	0.08125	1.4538
1/2	0.01773	1.0851	0.05115	1.2656	0.08219	1.4601
17/32	0.01881	1.0905	0.05216	1.2715	0.08312	1.4664
9/16	0.01989	1.0959	0.05316	1.2774	0.08405	1.4727
19/32	0.02097	1.1014	0.05416	1.2833	0.08499	1.4790
5/8	0.02205	1.1069	0.05516	1.2892	0.08591	1.4854
21/32	0.02312	1.1124	0.05615	1.2951	0.08684	1.4917
11/16	0.02419	1.1179	0.05714	1.3010	0.08777	1.4981
23/32	0.02526	1.1234	0.05813	1.3070	0.08869	1.5045
3/4	0.02633	1.1289	0.05912	1.3129	0.08961	1.5109
25/32	0.02739	1.1344	0.06011	1.3189	0.09053	1.5173
13/16	0.02845	1.1400	0.06109	1.3249	0.09145	1.5237
27/32	0.02951	1.1456	0.06207	1.3309	0.09236	1.5301
7/8	0.03057	1.1511	0.06305	1.3369	0.09328	1.5366
29/32	0.03162	1.1567	0.06403	1.3429	0.09419	1.5430
15/16	0.03267	1.1624	0.06500	1.3490	0.09510	1.5495
31/32	0.03372	1.1680	0.06598	1.3550	0.09600	1.5560
1	0.03476	1.1736	0.06695	1.3611	0.09691	1.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.09691	1.5625	0.12494	1.7778	0.15127	2.0069
$\frac{1}{32}$	0.09781	1.5690	0.12579	1.7847	0.15207	2.0143
$\frac{1}{16}$	0.09872	1.5755	0.12663	1.7917	0.15286	2.0217
$\frac{3}{32}$	0.09962	1.5821	0.12748	1.7987	0.15366	2.0291
$\frac{1}{8}$	0.10051	1.5887	0.12832	1.8057	0.15445	2.0366
$\frac{5}{32}$	0.10141	1.5952	0.12916	1.8127	0.15524	2.0440
$\frac{3}{16}$	0.10231	1.6018	0.13000	1.8197	0.15603	2.0515
$\frac{7}{32}$	0.10320	1.6084	0.13084	1.8267	0.15682	2.0589
$\frac{1}{4}$	0.10409	1.6150	0.13167	1.8338	0.15761	2.0664
$\frac{9}{32}$	0.10498	1.6216	0.13251	1.8408	0.15839	2.0739
$\frac{5}{16}$	0.10586	1.6283	0.13334	1.8479	0.15918	2.0814
$\frac{11}{32}$	0.10675	1.6349	0.13417	1.8550	0.15996	2.0889
$\frac{3}{8}$	0.10763	1.6416	0.13500	1.8621	0.16074	2.0965
$\frac{13}{32}$	0.10852	1.6483	0.13583	1.8692	0.16152	2.1040
$\frac{7}{16}$	0.10940	1.6550	0.13665	1.8763	0.16230	2.1116
$\frac{15}{32}$	0.11027	1.6617	0.13748	1.8835	0.16308	2.1191
$\frac{1}{2}$	0.11115	1.6684	0.13830	1.8906	0.16386	2.1267
$\frac{17}{32}$	0.11203	1.6751	0.13912	1.8978	0.16463	2.1343
$\frac{9}{16}$	0.11290	1.6819	0.13994	1.9050	0.16541	2.1420
$\frac{19}{32}$	0.11377	1.6886	0.14076	1.9122	0.16618	2.1496
$\frac{5}{8}$	0.11464	1.6954	0.14158	1.9194	0.16695	2.1572
$\frac{21}{32}$	0.11551	1.7022	0.14240	1.9266	0.16772	2.1649
$\frac{11}{16}$	0.11637	1.7090	0.14321	1.9338	0.16849	2.1726
$\frac{23}{32}$	0.11724	1.7158	0.14402	1.9411	0.16925	2.1802
$\frac{3}{4}$	0.11810	1.7227	0.14483	1.9484	0.17002	2.1879
$\frac{25}{32}$	0.11896	1.7295	0.14564	1.9556	0.17078	2.1956
$\frac{13}{16}$	0.11982	1.7364	0.14645	1.9629	0.17154	2.2034
$\frac{27}{32}$	0.12068	1.7432	0.14726	1.9702	0.17230	2.2111
$\frac{7}{8}$	0.12153	1.7501	0.14806	1.9775	0.17306	2.2189
$\frac{29}{32}$	0.12239	1.7570	0.14887	1.9849	0.17382	2.2266
$\frac{15}{16}$	0.12324	1.7639	0.14967	1.9922	0.17458	2.2344
$\frac{31}{32}$	0.12409	1.7708	0.15047	1.9996	0.17534	2.2422
1	0.12494	1.7778	0.15127	2.0069	0.17609	2.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.17609	2.2500	0.19957	2.5069	0.22185	2.7778
$\frac{1}{32}$	0.17684	2.2578	0.20029	2.5152	0.22253	2.7865
$\frac{1}{16}$	0.17760	2.2657	0.20100	2.5235	0.22320	2.7952
$\frac{3}{32}$	0.17835	2.2735	0.20171	2.5317	0.22388	2.8039
$\frac{1}{8}$	0.17910	2.2814	0.20242	2.5400	0.22455	2.8126
$\frac{5}{32}$	0.17984	2.2892	0.20313	2.5483	0.22523	2.8214
$\frac{3}{16}$	0.18059	2.2971	0.20384	2.5567	0.22590	2.8301
$\frac{7}{32}$	0.18134	2.3050	0.20454	2.5650	0.22657	2.8389
$\frac{1}{4}$	0.18208	2.3129	0.20525	2.5734	0.22724	2.8477
$\frac{9}{32}$	0.18282	2.3209	0.20595	2.5817	0.22791	2.8565
$\frac{5}{16}$	0.18357	2.3288	0.20666	2.5901	0.22858	2.8653
$\frac{11}{32}$	0.18431	2.3368	0.20736	2.5985	0.22925	2.8741
$\frac{3}{8}$	0.18505	2.3447	0.20806	2.6069	0.22992	2.8829
$\frac{13}{32}$	0.18578	2.3527	0.20876	2.6153	0.23058	2.8918
$\frac{7}{16}$	0.18652	2.3607	0.20946	2.6237	0.23125	2.9006
$\frac{15}{32}$	0.18726	2.3687	0.21016	2.6322	0.23191	2.9095
$\frac{1}{2}$	0.18799	2.3767	0.21085	2.6406	0.23257	2.9184
$\frac{17}{32}$	0.18872	2.3848	0.21155	2.6491	0.23323	2.9273
$\frac{9}{16}$	0.18946	2.3928	0.21224	2.6576	0.23389	2.9362
$\frac{19}{32}$	0.19019	2.4009	0.21294	2.6661	0.23455	2.9452
$\frac{5}{8}$	0.19092	2.4090	0.21363	2.6746	0.23521	2.9541
$\frac{21}{32}$	0.19164	2.4171	0.21432	2.6831	0.23587	2.9631
$\frac{11}{16}$	0.19237	2.4252	0.21501	2.6917	0.23653	2.9720
$\frac{23}{32}$	0.19310	2.4333	0.21570	2.7002	0.23718	2.9810
$\frac{3}{4}$	0.19382	2.4414	0.21639	2.7088	0.23784	2.9900
$\frac{25}{32}$	0.19454	2.4496	0.21707	2.7173	0.23849	2.9990
$\frac{13}{16}$	0.19527	2.4577	0.21776	2.7259	0.23914	3.0081
$\frac{27}{32}$	0.19599	2.4659	0.21844	2.7345	0.23979	3.0171
$\frac{7}{8}$	0.19671	2.4741	0.21913	2.7432	0.24045	3.0262
$\frac{29}{32}$	0.19742	2.4823	0.21981	2.7518	0.24109	3.0352
$\frac{15}{16}$	0.19814	2.4905	0.22049	2.7604	0.24174	3.0443
$\frac{31}{32}$	0.19886	2.4987	0.22117	2.7691	0.24239	3.0534
1	0.19957	2.5069	0.22185	2.7778	0.24304	3.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.24304	3.0625	0.26324	3.3611	0.28255	3.6736
$\frac{1}{32}$	0.24368	3.0716	0.26386	3.3707	0.28314	3.6836
$\frac{1}{16}$	0.24433	3.0808	0.26447	3.3802	0.28373	3.6936
$\frac{3}{32}$	0.24497	3.0899	0.26509	3.3898	0.28431	3.7036
$\frac{1}{8}$	0.24562	3.0991	0.26570	3.3994	0.28490	3.7137
$\frac{5}{32}$	0.24626	3.1082	0.26632	3.4090	0.28549	3.7237
$\frac{3}{16}$	0.24690	3.1174	0.26693	3.4186	0.28607	3.7338
$\frac{7}{32}$	0.24754	3.1266	0.26754	3.4283	0.28666	3.7438
$\frac{1}{4}$	0.24818	3.1359	0.26815	3.4379	0.28724	3.7539
$\frac{9}{32}$	0.24882	3.1451	0.26876	3.4476	0.28783	3.7640
$\frac{5}{16}$	0.24945	3.1543	0.26937	3.4573	0.28841	3.7741
$\frac{11}{32}$	0.25009	3.1636	0.26997	3.4670	0.28899	3.7842
$\frac{3}{8}$	0.25072	3.1729	0.27058	3.4767	0.28957	3.7944
$\frac{13}{32}$	0.25136	3.1821	0.27119	3.4864	0.29015	3.8045
$\frac{7}{16}$	0.25199	3.1914	0.27179	3.4961	0.29073	3.8147
$\frac{15}{32}$	0.25263	3.2007	0.27240	3.5059	0.29131	3.8249
$\frac{1}{2}$	0.25326	3.2101	0.27300	3.5156	0.29189	3.8351
$\frac{17}{32}$	0.25389	3.2194	0.27360	3.5254	0.29246	3.8453
$\frac{9}{16}$	0.25452	3.2288	0.27421	3.5352	0.29304	3.8555
$\frac{19}{32}$	0.25515	3.2381	0.27481	3.5450	0.29362	3.8657
$\frac{5}{8}$	0.25577	3.2475	0.27541	3.5548	0.29419	3.8760
$\frac{21}{32}$	0.25640	3.2569	0.27601	3.5646	0.29476	3.8862
$\frac{11}{16}$	0.25703	3.2663	0.27661	3.5745	0.29534	3.8965
$\frac{23}{32}$	0.25765	3.2757	0.27720	3.5843	0.29591	3.9068
$\frac{3}{4}$	0.25828	3.2852	0.27780	3.5942	0.29648	3.9171
$\frac{25}{32}$	0.25890	3.2946	0.27840	3.6041	0.29705	3.9274
$\frac{13}{16}$	0.25952	3.3041	0.27899	3.6140	0.29762	3.9377
$\frac{27}{32}$	0.26015	3.3135	0.27959	3.6239	0.29819	3.9481
$\frac{7}{8}$	0.26077	3.3230	0.28018	3.6338	0.29876	3.9584
$\frac{29}{32}$	0.26139	3.3325	0.28077	3.6437	0.29933	3.9688
$\frac{15}{16}$	0.26201	3.3420	0.28136	3.6537	0.29990	3.9792
$\frac{31}{32}$	0.26262	3.3516	0.28196	3.6636	0.30046	3.9896
1	0.26324	3.3611	0.28255	3.6736	0.30103	4.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.30103	4.0000	0.31876	4.3403	0.33579	4.6944
$\frac{1}{32}$	0.30160	4.0104	0.31930	4.3511	0.33631	4.7057
$\frac{1}{16}$	0.30216	4.0209	0.31984	4.3620	0.33683	4.7170
$\frac{3}{32}$	0.30272	4.0313	0.32038	4.3729	0.33736	4.7284
$\frac{1}{8}$	0.30329	4.0418	0.32092	4.3838	0.33788	4.7397
$\frac{5}{32}$	0.30385	4.0523	0.32146	4.3947	0.33839	4.7510
$\frac{3}{16}$	0.30441	4.0627	0.32200	4.4056	0.33891	4.7624
$\frac{7}{32}$	0.30497	4.0732	0.32254	4.4166	0.33943	4.7738
$\frac{1}{4}$	0.30553	4.0838	0.32308	4.4275	0.33995	4.7852
$\frac{9}{32}$	0.30609	4.0943	0.32362	4.4385	0.34046	4.7966
$\frac{5}{16}$	0.30665	4.1048	0.32415	4.4495	0.34098	4.8080
$1\frac{1}{32}$	0.30721	4.1154	0.32469	4.4605	0.34150	4.8194
$\frac{3}{8}$	0.30776	4.1260	0.32522	4.4715	0.34201	4.8308
$1\frac{3}{32}$	0.30832	4.1366	0.32576	4.4825	0.34253	4.8423
$\frac{7}{16}$	0.30888	4.1472	0.32629	4.4935	0.34304	4.8538
$1\frac{5}{32}$	0.30943	4.1578	0.32683	4.5046	0.34355	4.8652
$\frac{1}{2}$	0.30998	4.1684	0.32736	4.5156	0.34406	4.8767
$1\frac{7}{32}$	0.31054	4.1790	0.32789	4.5267	0.34458	4.8882
$\frac{9}{16}$	0.31109	4.1897	0.32842	4.5378	0.34509	4.8998
$1\frac{9}{32}$	0.31164	4.2004	0.32895	4.5489	0.34560	4.9113
$\frac{5}{8}$	0.31219	4.2110	0.32948	4.5600	0.34611	4.9229
$2\frac{1}{32}$	0.31275	4.2217	0.33001	4.5711	0.34662	4.9344
$1\frac{1}{8}$	0.31330	4.2324	0.33054	4.5823	0.34713	4.9460
$2\frac{3}{32}$	0.31385	4.2432	0.33107	4.5934	0.34763	4.9576
$\frac{3}{4}$	0.31439	4.2539	0.33160	4.6046	0.34814	4.9692
$2\frac{5}{32}$	0.31494	4.2647	0.33212	4.6158	0.34865	4.9808
$1\frac{3}{8}$	0.31549	4.2754	0.33265	4.6270	0.34916	4.9924
$2\frac{7}{32}$	0.31604	4.2862	0.33317	4.6382	0.34966	5.0041
$\frac{7}{8}$	0.31658	4.2970	0.33370	4.6494	0.35017	5.0157
$2\frac{9}{32}$	0.31713	4.3078	0.33422	4.6607	0.35067	5.0274
$1\frac{5}{8}$	0.31767	4.3186	0.33475	4.6719	0.35118	5.0391
$3\frac{1}{32}$	0.31822	4.3294	0.33527	4.6832	0.35168	5.0508
1	0.31876	4.3403	0.33579	4.6944	0.35218	5.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.35218	5.0625	0.36798	5.4444	0.38322	5.8403
$\frac{1}{32}$	0.35268	5.0742	0.36846	5.4566	0.38368	5.8529
$\frac{1}{16}$	0.35319	5.0860	0.36895	5.4688	0.38415	5.8655
$\frac{3}{32}$	0.35369	5.0977	0.36943	5.4810	0.38462	5.8781
$\frac{1}{8}$	0.35419	5.1095	0.36991	5.4932	0.38508	5.8907
$\frac{5}{32}$	0.35469	5.1213	0.37039	5.5054	0.38555	5.9034
$\frac{3}{16}$	0.35519	5.1331	0.37088	5.5176	0.38602	5.9160
$\frac{7}{32}$	0.35569	5.1449	0.37136	5.5298	0.38648	5.9287
$\frac{1}{4}$	0.35619	5.1567	0.37184	5.5421	0.38694	5.9414
$\frac{9}{32}$	0.35668	5.1685	0.37232	5.5544	0.38741	5.9541
$\frac{5}{16}$	0.35718	5.1804	0.37280	5.5667	0.38787	5.9668
$1\frac{1}{32}$	0.35768	5.1922	0.37328	5.5789	0.38833	5.9796
$\frac{3}{8}$	0.35817	5.2041	0.37375	5.5913	0.38880	5.9923
$1\frac{3}{32}$	0.35867	5.2160	0.37423	5.6036	0.38926	6.0051
$\frac{7}{16}$	0.35916	5.2279	0.37471	5.6159	0.38972	6.0178
$1\frac{5}{32}$	0.35966	5.2398	0.37519	5.6283	0.39018	6.0306
$\frac{1}{2}$	0.36015	5.2517	0.37566	5.6406	0.39064	6.0434
$1\frac{7}{32}$	0.36064	5.2637	0.37614	5.6530	0.39110	6.0562
$\frac{9}{16}$	0.36114	5.2756	0.37661	5.6654	0.39156	6.0690
$1\frac{9}{32}$	0.36163	5.2876	0.37709	5.6778	0.39202	6.0819
$\frac{5}{8}$	0.36212	5.2996	0.37756	5.6902	0.39248	6.0947
$2\frac{1}{32}$	0.36261	5.3116	0.37804	5.7026	0.39293	6.1076
$1\frac{11}{16}$	0.36310	5.3236	0.37851	5.7151	0.39339	6.1205
$2\frac{3}{32}$	0.36359	5.3356	0.37898	5.7275	0.39385	6.1334
$\frac{3}{4}$	0.36408	5.3477	0.37946	5.7400	0.39431	6.1463
$2\frac{5}{32}$	0.36457	5.3597	0.37993	5.7525	0.39476	6.1592
$1\frac{13}{16}$	0.36506	5.3718	0.38040	5.7650	0.39522	6.1721
$2\frac{7}{32}$	0.36555	5.3839	0.38087	5.7775	0.39567	6.1851
$\frac{7}{8}$	0.36603	5.3959	0.38134	5.7900	0.39613	6.1980
$2\frac{9}{32}$	0.36652	5.4080	0.38181	5.8026	0.39658	6.2110
$1\frac{15}{16}$	0.36701	5.4202	0.38228	5.8151	0.39703	6.2240
$3\frac{1}{32}$	0.36749	5.4323	0.38275	5.8277	0.39749	6.2370
1	0.36798	5.4444	0.38322	5.8403	0.39794	6.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.39794	6.2500	0.41218	6.6736	0.42597	7.1111
$\frac{1}{32}$	0.39839	6.2630	0.41262	6.6871	0.42639	7.1250
$\frac{1}{16}$	0.39884	6.2761	0.41306	6.7005	0.42682	7.1389
$\frac{3}{32}$	0.39930	6.2891	0.41349	6.7140	0.42724	7.1528
$\frac{1}{8}$	0.39975	6.3022	0.41393	6.7275	0.42766	7.1668
$\frac{5}{32}$	0.40020	6.3153	0.41436	6.7411	0.42808	7.1807
$\frac{3}{16}$	0.40065	6.3284	0.41480	6.7546	0.42851	7.1947
$\frac{7}{32}$	0.40110	6.3415	0.41523	6.7681	0.42893	7.2087
$\frac{1}{4}$	0.40154	6.3546	0.41567	6.7817	0.42935	7.2227
$\frac{9}{32}$	0.40199	6.3677	0.41610	6.7953	0.42977	7.2367
$\frac{5}{16}$	0.40244	6.3809	0.41654	6.8088	0.43019	7.2507
$\frac{11}{32}$	0.40289	6.3940	0.41697	6.8224	0.43061	7.2647
$\frac{3}{8}$	0.40334	6.4072	0.41740	6.8360	0.43103	7.2788
$\frac{13}{32}$	0.40378	6.4204	0.41783	6.8497	0.43145	7.2928
$\frac{7}{16}$	0.40423	6.4336	0.41827	6.8633	0.43187	7.3069
$\frac{15}{32}$	0.40467	6.4468	0.41870	6.8770	0.43228	7.3210
$\frac{1}{2}$	0.40512	6.4601	0.41913	6.8906	0.43270	7.3351
$\frac{17}{32}$	0.40556	6.4733	0.41956	6.9043	0.43312	7.3492
$\frac{9}{16}$	0.40601	6.4866	0.41999	6.9180	0.43354	7.3633
$\frac{19}{32}$	0.40645	6.4998	0.42042	6.9317	0.43395	7.3774
$\frac{5}{8}$	0.40689	6.5131	0.42085	6.9454	0.43437	7.3916
$\frac{21}{32}$	0.40734	6.5264	0.42128	6.9592	0.43479	7.4058
$\frac{11}{16}$	0.40778	6.5397	0.42171	6.9729	0.43520	7.4199
$\frac{23}{32}$	0.40822	6.5531	0.42213	6.9867	0.43562	7.4341
$\frac{3}{4}$	0.40866	6.5664	0.42256	7.0004	0.43603	7.4484
$\frac{25}{32}$	0.40911	6.5798	0.42299	7.0142	0.43644	7.4626
$\frac{13}{16}$	0.40955	6.5931	0.42342	7.0280	0.43686	7.4768
$\frac{27}{32}$	0.40999	6.6065	0.42384	7.0418	0.43727	7.4911
$\frac{7}{8}$	0.41043	6.6199	0.42427	7.0557	0.43768	7.5053
$\frac{29}{32}$	0.41087	6.6333	0.42469	7.0695	0.43810	7.5196
$\frac{15}{16}$	0.41130	6.6467	0.42512	7.0834	0.43851	7.5339
$\frac{31}{32}$	0.41174	6.6602	0.42554	7.0972	0.43892	7.5482
1	0.41218	6.6736	0.42597	7.1111	0.43933	7.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.43933	7.5625	0.45230	8.0278	0.46489	8.5069
$\frac{1}{32}$	0.43974	7.5768	0.45270	8.0425	0.46527	8.5221
$\frac{1}{16}$	0.44015	7.5912	0.45310	8.0573	0.46566	8.5374
$\frac{3}{32}$	0.44056	7.6055	0.45349	8.0721	0.46605	8.5526
$\frac{1}{8}$	0.44097	7.6199	0.45389	8.0869	0.46644	8.5678
$\frac{5}{32}$	0.44138	7.6343	0.45429	8.1017	0.46682	8.5831
$\frac{3}{16}$	0.44179	7.6487	0.45469	8.1166	0.46721	8.5983
$\frac{7}{32}$	0.44220	7.6631	0.45508	8.1314	0.46759	8.6136
$\frac{1}{4}$	0.44261	7.6775	0.45548	8.1463	0.46798	8.6289
$\frac{9}{32}$	0.44302	7.6920	0.45588	8.1611	0.46836	8.6442
$\frac{5}{16}$	0.44343	7.7064	0.45627	8.1760	0.46875	8.6595
$\frac{11}{32}$	0.44383	7.7209	0.45667	8.1909	0.46913	8.6749
$\frac{3}{8}$	0.44424	7.7354	0.45706	8.2058	0.46952	8.6902
$\frac{13}{32}$	0.44465	7.7498	0.45746	8.2208	0.46990	8.7056
$\frac{7}{16}$	0.44505	7.7643	0.45785	8.2357	0.47028	8.7209
$\frac{15}{32}$	0.44546	7.7789	0.45824	8.2507	0.47066	8.7363
$\frac{1}{2}$	0.44586	7.7934	0.45864	8.2656	0.47105	8.7517
$\frac{17}{32}$	0.44627	7.8079	0.45903	8.2806	0.47143	8.7672
$\frac{9}{16}$	0.44667	7.8225	0.45942	8.2956	0.47181	8.7826
$\frac{19}{32}$	0.44708	7.8371	0.45982	8.3106	0.47219	8.7980
$\frac{5}{8}$	0.44748	7.8517	0.46021	8.3256	0.47257	8.8135
$\frac{21}{32}$	0.44788	7.8663	0.46060	8.3407	0.47295	8.8289
$\frac{11}{16}$	0.44829	7.8809	0.46099	8.3557	0.47333	8.8444
$\frac{23}{32}$	0.44869	7.8955	0.46138	8.3708	0.47372	8.8599
$\frac{3}{4}$	0.44909	7.9102	0.46177	8.3859	0.47409	8.8754
$\frac{25}{32}$	0.44949	7.9248	0.46216	8.4009	0.47447	8.8910
$\frac{13}{16}$	0.44990	7.9395	0.46255	8.4160	0.47485	8.9065
$\frac{27}{32}$	0.45030	7.9542	0.46294	8.4312	0.47523	8.9220
$\frac{7}{8}$	0.45070	7.9689	0.46333	8.4463	0.47561	8.9376
$\frac{29}{32}$	0.45110	7.9836	0.46372	8.4614	0.47599	8.9532
$\frac{15}{16}$	0.45150	7.9983	0.46411	8.4766	0.47637	8.9688
$\frac{31}{32}$	0.45190	8.0130	0.46450	8.4918	0.47674	8.9844
1	0.45230	8.0278	0.46489	8.5069	0.47712	9.0000

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	9.69897	0.250000	9.76592	0.340278	9.82391	0.444444
$\frac{1}{32}$	9.70123	0.252611	9.76785	0.343323	9.82560	0.447923
$\frac{1}{16}$	9.70347	0.255235	9.76978	0.346381	9.82729	0.451416
$\frac{3}{32}$	9.70570	0.257874	9.77169	0.349453	9.82897	0.454922
$\frac{1}{8}$	9.70792	0.260525	9.77360	0.352539	9.83064	0.458442
$\frac{5}{32}$	9.71014	0.263190	9.77550	0.355638	9.83231	0.461975
$\frac{3}{16}$	9.71233	0.265869	9.77740	0.358751	9.83397	0.465522
$\frac{7}{32}$	9.71452	0.268561	9.77928	0.361877	9.83562	0.469082
$\frac{1}{4}$	9.71670	0.271267	9.78116	0.365017	9.83727	0.472656
$\frac{9}{32}$	9.71886	0.273987	9.78302	0.368171	9.83891	0.476244
$\frac{5}{16}$	9.72102	0.276720	9.78488	0.371338	9.84055	0.479845
$\frac{11}{32}$	9.72316	0.279466	9.78674	0.374519	9.84218	0.483459
$\frac{3}{8}$	9.72530	0.282227	9.78858	0.377713	9.84380	0.487088
$\frac{13}{32}$	9.72742	0.285000	9.79042	0.380920	9.84542	0.490729
$\frac{7}{16}$	9.72954	0.287788	9.79225	0.384142	9.84703	0.494385
$\frac{15}{32}$	9.73164	0.290588	9.79407	0.387377	9.84864	0.498054
$\frac{1}{2}$	9.73373	0.293403	9.79588	0.390625	9.85024	0.501736
$\frac{17}{32}$	9.73582	0.296231	9.79769	0.393887	9.85183	0.505432
$\frac{9}{16}$	9.73789	0.299072	9.79948	0.397163	9.85342	0.509142
$\frac{19}{32}$	9.73995	0.301927	9.80128	0.400452	9.85500	0.512865
$\frac{5}{8}$	9.74200	0.304796	9.80306	0.403754	9.85658	0.516602
$\frac{21}{32}$	9.74405	0.307678	9.80483	0.407071	9.85815	0.520352
$\frac{11}{16}$	9.74608	0.310574	9.80660	0.410400	9.85971	0.524116
$\frac{23}{32}$	9.74811	0.313483	9.80837	0.413744	9.86127	0.527893
$\frac{3}{4}$	9.75012	0.316406	9.81012	0.417101	9.86283	0.531684
$\frac{25}{32}$	9.75213	0.319343	9.81187	0.420471	9.86438	0.535489
$\frac{13}{16}$	9.75413	0.322293	9.81361	0.423855	9.86592	0.539307
$\frac{27}{32}$	9.75611	0.325256	9.81534	0.427253	9.86746	0.543138
$\frac{7}{8}$	9.75809	0.328234	9.81707	0.430664	9.86899	0.546984
$\frac{29}{32}$	9.76006	0.331224	9.81879	0.434089	9.87051	0.550842
$\frac{15}{16}$	9.76202	0.334229	9.82050	0.437527	9.87203	0.554715
$\frac{31}{32}$	9.76397	0.337246	9.82221	0.440979	9.87355	0.558601
1	9.76592	0.340278	9.82391	0.444444	9.87506	0.562500

0'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	9.87506	0.562500	9.92082	0.694444	9.96221	0.840278
$\frac{1}{32}$	9.87657	0.566413	9.92217	0.698792	9.96344	0.845059
$\frac{1}{16}$	9.87807	0.570340	9.92352	0.703152	9.96467	0.849854
$\frac{3}{32}$	9.87956	0.574280	9.92487	0.707526	9.96590	0.854662
$\frac{1}{8}$	9.88105	0.578234	9.92621	0.711914	9.96712	0.859484
$\frac{5}{32}$	9.88254	0.582201	9.92755	0.716315	9.96834	0.864319
$\frac{3}{16}$	9.88402	0.586182	9.92889	0.720730	9.96955	0.869168
$\frac{7}{32}$	9.88549	0.590176	9.93022	0.725159	9.97076	0.874030
$\frac{1}{4}$	9.88696	0.594184	9.93154	0.729601	9.97197	0.878906
$\frac{9}{32}$	9.88843	0.598206	9.93286	0.734056	9.97318	0.883796
$\frac{5}{16}$	9.88989	0.602241	9.93418	0.738525	9.97438	0.888699
$\frac{11}{32}$	9.89134	0.606289	9.93550	0.743008	9.97558	0.893616
$\frac{3}{8}$	9.89279	0.610352	9.93681	0.747504	9.97677	0.898546
$\frac{13}{32}$	9.89424	0.614427	9.93811	0.752014	9.97796	0.903490
$\frac{7}{16}$	9.89568	0.618517	9.93942	0.756538	9.97915	0.908447
$\frac{15}{32}$	9.89711	0.622620	9.94071	0.761074	9.98033	0.913418
$\frac{1}{2}$	9.89854	0.626736	9.94201	0.765625	9.98152	0.918403
$\frac{17}{32}$	9.89997	0.630866	9.94330	0.770189	9.98270	0.923401
$\frac{9}{16}$	9.90139	0.635010	9.94459	0.774767	9.98387	0.928413
$\frac{19}{32}$	9.90281	0.639167	9.94587	0.779358	9.98504	0.933438
$\frac{5}{8}$	9.90422	0.643338	9.94715	0.783963	9.98621	0.938477
$\frac{21}{32}$	9.90563	0.647522	9.94842	0.788581	9.98738	0.943529
$\frac{11}{16}$	9.90703	0.651720	9.94969	0.793213	9.98854	0.948595
$\frac{23}{32}$	9.90843	0.655931	9.95096	0.797858	9.98970	0.953674
$\frac{3}{4}$	9.90982	0.660156	9.95223	0.802517	9.99086	0.958767
$\frac{25}{32}$	9.91121	0.664395	9.95349	0.807190	9.99201	0.963874
$\frac{13}{16}$	9.91260	0.668647	9.95474	0.811876	9.99316	0.968994
$\frac{27}{32}$	9.91398	0.672913	9.95600	0.816576	9.99431	0.974128
$\frac{7}{8}$	9.91536	0.677192	9.95725	0.821289	9.99545	0.979275
$\frac{29}{32}$	9.91673	0.681485	9.95849	0.826016	9.99659	0.984436
$\frac{15}{16}$	9.91810	0.685791	9.95974	0.830756	9.99773	0.989610
$\frac{31}{32}$	9.91946	0.690111	9.96098	0.835510	9.99887	0.994798
1	9.92082	0.694444	9.96221	0.840278	0.00000	1.000000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.00000	1.0000	0.03476	1.1736	0.06695	1.3611
$\frac{1}{32}$	0.00113	1.0052	0.03580	1.1793	0.06792	1.3672
$\frac{1}{16}$	0.00226	1.0104	0.03685	1.1849	0.06888	1.3733
$\frac{3}{32}$	0.00338	1.0157	0.03788	1.1906	0.06985	1.3794
$\frac{1}{8}$	0.00450	1.0209	0.03892	1.1963	0.07081	1.3855
$\frac{5}{32}$	0.00562	1.0262	0.03995	1.2020	0.07177	1.3917
$\frac{3}{16}$	0.00673	1.0315	0.04098	1.2077	0.07272	1.3978
$\frac{7}{32}$	0.00785	1.0368	0.04201	1.2134	0.07368	1.4040
$\frac{1}{4}$	0.00895	1.0421	0.04303	1.2192	0.07463	1.4102
$\frac{9}{32}$	0.01006	1.0474	0.04406	1.2249	0.07558	1.4163
$\frac{5}{16}$	0.01116	1.0528	0.04508	1.2307	0.07653	1.4226
$\frac{11}{32}$	0.01227	1.0581	0.04610	1.2365	0.07748	1.4288
$\frac{3}{8}$	0.01336	1.0635	0.04711	1.2423	0.07843	1.4350
$\frac{13}{32}$	0.01446	1.0689	0.04813	1.2481	0.07937	1.4413
$\frac{7}{16}$	0.01555	1.0742	0.04914	1.2539	0.08031	1.4475
$\frac{15}{32}$	0.01664	1.0797	0.05015	1.2598	0.08125	1.4538
$\frac{1}{2}$	0.01773	1.0851	0.05115	1.2656	0.08219	1.4601
$\frac{17}{32}$	0.01881	1.0905	0.05216	1.2715	0.08312	1.4664
$\frac{9}{16}$	0.01989	1.0959	0.05316	1.2774	0.08405	1.4727
$\frac{19}{32}$	0.02097	1.1014	0.05416	1.2833	0.08499	1.4790
$\frac{5}{8}$	0.02205	1.1069	0.05516	1.2892	0.08591	1.4854
$\frac{21}{32}$	0.02312	1.1124	0.05615	1.2951	0.08684	1.4917
$\frac{11}{16}$	0.02419	1.1179	0.05714	1.3010	0.08777	1.4981
$\frac{23}{32}$	0.02526	1.1234	0.05813	1.3070	0.08869	1.5045
$\frac{3}{4}$	0.02633	1.1289	0.05912	1.3129	0.08961	1.5109
$\frac{25}{32}$	0.02739	1.1344	0.06011	1.3189	0.09053	1.5173
$\frac{13}{16}$	0.02845	1.1400	0.06109	1.3249	0.09145	1.5237
$\frac{27}{32}$	0.02951	1.1456	0.06207	1.3309	0.09236	1.5301
$\frac{7}{8}$	0.03057	1.1511	0.06305	1.3369	0.09328	1.5366
$\frac{29}{32}$	0.03162	1.1567	0.06403	1.3429	0.09419	1.5430
$\frac{15}{16}$	0.03267	1.1624	0.06500	1.3490	0.09510	1.5495
$\frac{31}{32}$	0.03372	1.1680	0.06598	1.3550	0.09600	1.5560
1	0.03476	1.1736	0.06695	1.3611	0.09691	1.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.09691	1.5625	0.12494	1.7778	0.15127	2.0069
$\frac{1}{32}$	0.09781	1.5690	0.12579	1.7847	0.15207	2.0143
$\frac{1}{16}$	0.09872	1.5755	0.12663	1.7917	0.15286	2.0217
$\frac{3}{32}$	0.09962	1.5821	0.12748	1.7987	0.15366	2.0291
$\frac{1}{8}$	0.10051	1.5887	0.12832	1.8057	0.15445	2.0366
$\frac{5}{32}$	0.10141	1.5952	0.12916	1.8127	0.15524	2.0440
$\frac{3}{16}$	0.10231	1.6018	0.13000	1.8197	0.15603	2.0515
$\frac{7}{32}$	0.10320	1.6084	0.13084	1.8267	0.15682	2.0589
$\frac{1}{4}$	0.10409	1.6150	0.13167	1.8338	0.15761	2.0664
$\frac{9}{32}$	0.10498	1.6216	0.13251	1.8408	0.15839	2.0739
$\frac{5}{16}$	0.10586	1.6283	0.13334	1.8479	0.15918	2.0814
$\frac{11}{32}$	0.10675	1.6349	0.13417	1.8550	0.15996	2.0889
$\frac{3}{8}$	0.10763	1.6416	0.13500	1.8621	0.16074	2.0965
$\frac{13}{32}$	0.10852	1.6483	0.13583	1.8692	0.16152	2.1040
$\frac{7}{16}$	0.10940	1.6550	0.13665	1.8763	0.16230	2.1116
$\frac{15}{32}$	0.11027	1.6617	0.13748	1.8835	0.16308	2.1191
$\frac{1}{2}$	0.11115	1.6684	0.13830	1.8906	0.16386	2.1267
$\frac{17}{32}$	0.11203	1.6751	0.13912	1.8978	0.16463	2.1343
$\frac{9}{16}$	0.11290	1.6819	0.13994	1.9050	0.16541	2.1420
$\frac{19}{32}$	0.11377	1.6886	0.14076	1.9122	0.16618	2.1496
$\frac{5}{8}$	0.11464	1.6954	0.14158	1.9194	0.16695	2.1572
$\frac{21}{32}$	0.11551	1.7022	0.14240	1.9266	0.16772	2.1649
$\frac{11}{16}$	0.11637	1.7090	0.14321	1.9338	0.16849	2.1726
$\frac{23}{32}$	0.11724	1.7158	0.14402	1.9411	0.16925	2.1802
$\frac{3}{4}$	0.11810	1.7227	0.14483	1.9484	0.17002	2.1879
$\frac{25}{32}$	0.11896	1.7295	0.14564	1.9556	0.17078	2.1956
$\frac{13}{16}$	0.11982	1.7364	0.14645	1.9629	0.17154	2.2034
$\frac{27}{32}$	0.12068	1.7432	0.14726	1.9702	0.17230	2.2111
$\frac{7}{8}$	0.12153	1.7501	0.14806	1.9775	0.17306	2.2189
$\frac{29}{32}$	0.12239	1.7570	0.14887	1.9849	0.17382	2.2266
$\frac{15}{16}$	0.12324	1.7639	0.14967	1.9922	0.17458	2.2344
$\frac{31}{32}$	0.12409	1.7708	0.15047	1.9996	0.17534	2.2422
1	0.12494	1.7778	0.15127	2.0069	0.17609	2.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.17609	2.2500	0.19957	2.5069	0.22185	2.7778
$\frac{1}{32}$	0.17684	2.2578	0.20029	2.5152	0.22253	2.7865
$\frac{1}{16}$	0.17760	2.2657	0.20100	2.5235	0.22320	2.7952
$\frac{3}{32}$	0.17835	2.2735	0.20171	2.5317	0.22388	2.8039
$\frac{1}{8}$	0.17910	2.2814	0.20242	2.5400	0.22455	2.8126
$\frac{5}{32}$	0.17984	2.2892	0.20313	2.5483	0.22523	2.8214
$\frac{3}{16}$	0.18059	2.2971	0.20384	2.5567	0.22590	2.8301
$\frac{7}{32}$	0.18134	2.3050	0.20454	2.5650	0.22657	2.8389
$\frac{1}{4}$	0.18208	2.3129	0.20525	2.5734	0.22724	2.8477
$\frac{9}{32}$	0.18282	2.3209	0.20595	2.5817	0.22791	2.8565
$\frac{5}{16}$	0.18357	2.3288	0.20666	2.5901	0.22858	2.8653
$\frac{11}{32}$	0.18431	2.3368	0.20736	2.5985	0.22925	2.8741
$\frac{3}{8}$	0.18505	2.3447	0.20806	2.6069	0.22992	2.8829
$\frac{13}{32}$	0.18578	2.3527	0.20876	2.6153	0.23058	2.8918
$\frac{7}{16}$	0.18652	2.3607	0.20946	2.6237	0.23125	2.9006
$\frac{15}{32}$	0.18726	2.3687	0.21016	2.6322	0.23191	2.9095
$\frac{1}{2}$	0.18799	2.3767	0.21085	2.6406	0.23257	2.9184
$\frac{17}{32}$	0.18872	2.3848	0.21155	2.6491	0.23323	2.9273
$\frac{9}{16}$	0.18946	2.3928	0.21224	2.6576	0.23389	2.9362
$\frac{19}{32}$	0.19019	2.4009	0.21294	2.6661	0.23455	2.9452
$\frac{5}{8}$	0.19092	2.4090	0.21363	2.6746	0.23521	2.9541
$\frac{21}{32}$	0.19164	2.4171	0.21432	2.6831	0.23587	2.9631
$\frac{11}{16}$	0.19237	2.4252	0.21501	2.6917	0.23653	2.9720
$\frac{23}{32}$	0.19310	2.4333	0.21570	2.7002	0.23718	2.9810
$\frac{3}{4}$	0.19382	2.4414	0.21639	2.7088	0.23784	2.9900
$\frac{25}{32}$	0.19454	2.4496	0.21707	2.7173	0.23849	2.9990
$\frac{13}{16}$	0.19527	2.4577	0.21776	2.7259	0.23914	3.0081
$\frac{27}{32}$	0.19599	2.4659	0.21844	2.7345	0.23979	3.0171
$\frac{7}{8}$	0.19671	2.4741	0.21913	2.7432	0.24045	3.0262
$\frac{29}{32}$	0.19742	2.4823	0.21981	2.7518	0.24109	3.0352
$\frac{15}{16}$	0.19814	2.4905	0.22049	2.7604	0.24174	3.0443
$\frac{31}{32}$	0.19886	2.4987	0.22117	2.7691	0.24239	3.0534
1	0.19957	2.5069	0.22185	2.7778	0.24304	3.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.24304	3.0625	0.26324	3.3611	0.28255	3.6736
$\frac{1}{32}$	0.24368	3.0716	0.26386	3.3707	0.28314	3.6836
$\frac{1}{16}$	0.24433	3.0808	0.26447	3.3802	0.28373	3.6936
$\frac{3}{32}$	0.24497	3.0899	0.26509	3.3898	0.28431	3.7036
$\frac{1}{8}$	0.24562	3.0991	0.26570	3.3994	0.28490	3.7137
$\frac{5}{32}$	0.24626	3.1082	0.26632	3.4090	0.28549	3.7237
$\frac{3}{16}$	0.24690	3.1174	0.26693	3.4186	0.28607	3.7338
$\frac{7}{32}$	0.24754	3.1266	0.26754	3.4283	0.28666	3.7438
$\frac{1}{4}$	0.24818	3.1359	0.26815	3.4379	0.28724	3.7539
$\frac{9}{32}$	0.24882	3.1451	0.26876	3.4476	0.28783	3.7640
$\frac{5}{16}$	0.24945	3.1543	0.26937	3.4573	0.28841	3.7741
$\frac{11}{32}$	0.25009	3.1636	0.26997	3.4670	0.28899	3.7842
$\frac{3}{8}$	0.25072	3.1729	0.27058	3.4767	0.28957	3.7944
$\frac{13}{32}$	0.25136	3.1821	0.27119	3.4864	0.29015	3.8045
$\frac{7}{16}$	0.25199	3.1914	0.27179	3.4961	0.29073	3.8147
$\frac{15}{32}$	0.25263	3.2007	0.27240	3.5059	0.29131	3.8249
$\frac{1}{2}$	0.25326	3.2101	0.27300	3.5156	0.29189	3.8351
$\frac{17}{32}$	0.25389	3.2194	0.27360	3.5254	0.29246	3.8453
$\frac{9}{16}$	0.25452	3.2288	0.27421	3.5352	0.29304	3.8555
$\frac{19}{32}$	0.25515	3.2381	0.27481	3.5450	0.29362	3.8657
$\frac{5}{8}$	0.25577	3.2475	0.27541	3.5548	0.29419	3.8760
$\frac{21}{32}$	0.25640	3.2569	0.27601	3.5646	0.29476	3.8862
$\frac{11}{16}$	0.25703	3.2663	0.27661	3.5745	0.29534	3.8965
$\frac{23}{32}$	0.25765	3.2757	0.27720	3.5843	0.29591	3.9068
$\frac{3}{4}$	0.25828	3.2852	0.27780	3.5942	0.29648	3.9171
$\frac{25}{32}$	0.25890	3.2946	0.27840	3.6041	0.29705	3.9274
$\frac{13}{16}$	0.25952	3.3041	0.27899	3.6140	0.29762	3.9377
$\frac{27}{32}$	0.26015	3.3135	0.27959	3.6239	0.29819	3.9481
$\frac{7}{8}$	0.26077	3.3230	0.28018	3.6338	0.29876	3.9584
$\frac{29}{32}$	0.26139	3.3325	0.28077	3.6437	0.29933	3.9688
$\frac{15}{16}$	0.26201	3.3420	0.28136	3.6537	0.29990	3.9792
$\frac{31}{32}$	0.26262	3.3516	0.28196	3.6636	0.30046	3.9896
1	0.26324	3.3611	0.28255	3.6736	0.30103	4.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.30103	4.0000	0.31876	4.3403	0.33579	4.6944
$\frac{1}{32}$	0.30160	4.0104	0.31930	4.3511	0.33631	4.7057
$\frac{1}{16}$	0.30216	4.0209	0.31984	4.3620	0.33683	4.7170
$\frac{3}{32}$	0.30272	4.0313	0.32038	4.3729	0.33736	4.7284
$\frac{1}{8}$	0.30329	4.0418	0.32092	4.3838	0.33788	4.7397
$\frac{5}{32}$	0.30385	4.0523	0.32146	4.3947	0.33839	4.7510
$\frac{3}{16}$	0.30441	4.0627	0.32200	4.4056	0.33891	4.7624
$\frac{7}{32}$	0.30497	4.0732	0.32254	4.4166	0.33943	4.7738
$\frac{1}{4}$	0.30553	4.0838	0.32308	4.4275	0.33995	4.7852
$\frac{9}{32}$	0.30609	4.0943	0.32362	4.4385	0.34046	4.7966
$\frac{5}{16}$	0.30665	4.1048	0.32415	4.4495	0.34098	4.8080
$\frac{11}{32}$	0.30721	4.1154	0.32469	4.4605	0.34150	4.8194
$\frac{3}{8}$	0.30776	4.1260	0.32522	4.4715	0.34201	4.8308
$\frac{13}{32}$	0.30832	4.1366	0.32576	4.4825	0.34253	4.8423
$\frac{7}{16}$	0.30888	4.1472	0.32629	4.4935	0.34304	4.8538
$\frac{15}{32}$	0.30943	4.1578	0.32683	4.5046	0.34355	4.8652
$\frac{1}{2}$	0.30998	4.1684	0.32736	4.5156	0.34406	4.8767
$\frac{17}{32}$	0.31054	4.1790	0.32789	4.5267	0.34458	4.8882
$\frac{9}{16}$	0.31109	4.1897	0.32842	4.5378	0.34509	4.8998
$\frac{19}{32}$	0.31164	4.2004	0.32895	4.5489	0.34560	4.9113
$\frac{5}{8}$	0.31219	4.2110	0.32948	4.5600	0.34611	4.9229
$\frac{21}{32}$	0.31275	4.2217	0.33001	4.5711	0.34662	4.9344
$\frac{11}{16}$	0.31330	4.2324	0.33054	4.5823	0.34713	4.9460
$\frac{23}{32}$	0.31385	4.2432	0.33107	4.5934	0.34763	4.9576
$\frac{3}{4}$	0.31439	4.2539	0.33160	4.6046	0.34814	4.9692
$\frac{25}{32}$	0.31494	4.2647	0.33212	4.6158	0.34865	4.9808
$\frac{13}{16}$	0.31549	4.2754	0.33265	4.6270	0.34916	4.9924
$\frac{27}{32}$	0.31604	4.2862	0.33317	4.6382	0.34966	5.0041
$\frac{7}{8}$	0.31658	4.2970	0.33370	4.6494	0.35017	5.0157
$\frac{29}{32}$	0.31713	4.3078	0.33422	4.6607	0.35067	5.0274
$\frac{15}{16}$	0.31767	4.3186	0.33475	4.6719	0.35118	5.0391
$\frac{31}{32}$	0.31822	4.3294	0.33527	4.6832	0.35168	5.0508
1	0.31876	4.3403	0.33579	4.6944	0.35218	5.0625

2'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.35218	5.0625	0.36798	5.4444	0.38322	5.8403
$\frac{1}{32}$	0.35268	5.0742	0.36846	5.4566	0.38368	5.8529
$\frac{1}{16}$	0.35319	5.0860	0.36895	5.4688	0.38415	5.8655
$\frac{3}{32}$	0.35369	5.0977	0.36943	5.4810	0.38462	5.8781
$\frac{1}{8}$	0.35419	5.1095	0.36991	5.4932	0.38508	5.8907
$\frac{5}{32}$	0.35469	5.1213	0.37039	5.5054	0.38555	5.9034
$\frac{3}{16}$	0.35519	5.1331	0.37088	5.5176	0.38602	5.9160
$\frac{7}{32}$	0.35569	5.1449	0.37136	5.5298	0.38648	5.9287
$\frac{1}{4}$	0.35619	5.1567	0.37184	5.5421	0.38694	5.9414
$\frac{9}{32}$	0.35668	5.1685	0.37232	5.5544	0.38741	5.9541
$\frac{5}{16}$	0.35718	5.1804	0.37280	5.5667	0.38787	5.9668
$1\frac{1}{32}$	0.35768	5.1922	0.37328	5.5789	0.38833	5.9796
$\frac{3}{8}$	0.35817	5.2041	0.37375	5.5913	0.38880	5.9923
$1\frac{3}{32}$	0.35867	5.2160	0.37423	5.6036	0.38926	6.0051
$\frac{7}{16}$	0.35916	5.2279	0.37471	5.6159	0.38972	6.0178
$1\frac{5}{32}$	0.35966	5.2398	0.37519	5.6283	0.39018	6.0306
$\frac{1}{2}$	0.36015	5.2517	0.37566	5.6406	0.39064	6.0434
$1\frac{7}{32}$	0.36064	5.2637	0.37614	5.6530	0.39110	6.0562
$\frac{9}{16}$	0.36114	5.2756	0.37661	5.6654	0.39156	6.0690
$1\frac{9}{32}$	0.36163	5.2876	0.37709	5.6778	0.39202	6.0819
$\frac{5}{8}$	0.36212	5.2996	0.37756	5.6902	0.39248	6.0947
$2\frac{1}{32}$	0.36261	5.3116	0.37804	5.7026	0.39293	6.1076
$1\frac{11}{16}$	0.36310	5.3236	0.37851	5.7151	0.39339	6.1205
$2\frac{3}{32}$	0.36359	5.3356	0.37898	5.7275	0.39385	6.1334
$\frac{3}{4}$	0.36408	5.3477	0.37946	5.7400	0.39431	6.1463
$2\frac{5}{32}$	0.36457	5.3597	0.37993	5.7525	0.39476	6.1592
$1\frac{13}{16}$	0.36506	5.3718	0.38040	5.7650	0.39522	6.1721
$2\frac{7}{32}$	0.36555	5.3839	0.38087	5.7775	0.39567	6.1851
$\frac{7}{8}$	0.36603	5.3959	0.38134	5.7900	0.39613	6.1980
$2\frac{9}{32}$	0.36652	5.4080	0.38181	5.8026	0.39658	6.2110
$1\frac{15}{16}$	0.36701	5.4202	0.38228	5.8151	0.39703	6.2240
$3\frac{1}{32}$	0.36749	5.4323	0.38275	5.8277	0.39749	6.2370
1	0.36798	5.4444	0.38322	5.8403	0.39794	6.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.39794	6.2500	0.41218	6.6736	0.42597	7.1111
$\frac{1}{32}$	0.39839	6.2630	0.41262	6.6871	0.42639	7.1250
$\frac{1}{16}$	0.39884	6.2761	0.41306	6.7005	0.42682	7.1389
$\frac{3}{32}$	0.39930	6.2891	0.41349	6.7140	0.42724	7.1528
$\frac{1}{8}$	0.39975	6.3022	0.41393	6.7275	0.42766	7.1668
$\frac{5}{32}$	0.40020	6.3153	0.41436	6.7411	0.42808	7.1807
$\frac{3}{16}$	0.40065	6.3284	0.41480	6.7546	0.42851	7.1947
$\frac{7}{32}$	0.40110	6.3415	0.41523	6.7681	0.42893	7.2087
$\frac{1}{4}$	0.40154	6.3546	0.41567	6.7817	0.42935	7.2227
$\frac{9}{32}$	0.40199	6.3677	0.41610	6.7953	0.42977	7.2367
$\frac{5}{16}$	0.40244	6.3809	0.41654	6.8088	0.43019	7.2507
$\frac{11}{32}$	0.40289	6.3940	0.41697	6.8224	0.43061	7.2647
$\frac{3}{8}$	0.40334	6.4072	0.41740	6.8360	0.43103	7.2788
$\frac{13}{32}$	0.40378	6.4204	0.41783	6.8497	0.43145	7.2928
$\frac{7}{16}$	0.40423	6.4336	0.41827	6.8633	0.43187	7.3069
$\frac{15}{32}$	0.40467	6.4468	0.41870	6.8770	0.43228	7.3210
$\frac{1}{2}$	0.40512	6.4601	0.41913	6.8906	0.43270	7.3351
$\frac{17}{32}$	0.40556	6.4733	0.41956	6.9043	0.43312	7.3492
$\frac{9}{16}$	0.40601	6.4866	0.41999	6.9180	0.43354	7.3633
$\frac{19}{32}$	0.40645	6.4998	0.42042	6.9317	0.43395	7.3774
$\frac{5}{8}$	0.40689	6.5131	0.42085	6.9454	0.43437	7.3916
$\frac{21}{32}$	0.40734	6.5264	0.42128	6.9592	0.43479	7.4058
$\frac{11}{16}$	0.40778	6.5397	0.42171	6.9729	0.43520	7.4199
$\frac{23}{32}$	0.40822	6.5531	0.42213	6.9867	0.43562	7.4341
$\frac{3}{4}$	0.40866	6.5664	0.42256	7.0004	0.43603	7.4484
$\frac{25}{32}$	0.40911	6.5798	0.42299	7.0142	0.43644	7.4626
$\frac{13}{16}$	0.40955	6.5931	0.42342	7.0280	0.43686	7.4768
$\frac{27}{32}$	0.40999	6.6065	0.42384	7.0418	0.43727	7.4911
$\frac{7}{8}$	0.41043	6.6199	0.42427	7.0557	0.43768	7.5053
$\frac{29}{32}$	0.41087	6.6333	0.42469	7.0695	0.43810	7.5196
$\frac{15}{16}$	0.41130	6.6467	0.42512	7.0834	0.43851	7.5339
$\frac{31}{32}$	0.41174	6.6602	0.42554	7.0972	0.43892	7.5482
1	0.41218	6.6736	0.42597	7.1111	0.43933	7.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.43933	7.5625	0.45230	8.0278	0.46489	8.5069
$\frac{1}{32}$	0.43974	7.5768	0.45270	8.0425	0.46527	8.5221
$\frac{1}{16}$	0.44015	7.5912	0.45310	8.0573	0.46566	8.5374
$\frac{3}{32}$	0.44056	7.6055	0.45349	8.0721	0.46605	8.5526
$\frac{1}{8}$	0.44097	7.6199	0.45389	8.0869	0.46644	8.5678
$\frac{5}{32}$	0.44138	7.6343	0.45429	8.1017	0.46682	8.5831
$\frac{3}{16}$	0.44179	7.6487	0.45469	8.1166	0.46721	8.5983
$\frac{7}{32}$	0.44220	7.6631	0.45508	8.1314	0.46759	8.6136
$\frac{1}{4}$	0.44261	7.6775	0.45548	8.1463	0.46798	8.6289
$\frac{9}{32}$	0.44302	7.6920	0.45588	8.1611	0.46836	8.6442
$\frac{5}{16}$	0.44343	7.7064	0.45627	8.1760	0.46875	8.6595
$\frac{11}{32}$	0.44383	7.7209	0.45667	8.1909	0.46913	8.6749
$\frac{3}{8}$	0.44424	7.7354	0.45706	8.2058	0.46952	8.6902
$\frac{13}{32}$	0.44465	7.7498	0.45746	8.2208	0.46990	8.7056
$\frac{7}{16}$	0.44505	7.7643	0.45785	8.2357	0.47028	8.7209
$\frac{15}{32}$	0.44546	7.7789	0.45824	8.2507	0.47066	8.7363
$\frac{1}{2}$	0.44586	7.7934	0.45864	8.2656	0.47105	8.7517
$\frac{17}{32}$	0.44627	7.8079	0.45903	8.2806	0.47143	8.7672
$\frac{9}{16}$	0.44667	7.8225	0.45942	8.2956	0.47181	8.7826
$\frac{19}{32}$	0.44708	7.8371	0.45982	8.3106	0.47219	8.7980
$\frac{5}{8}$	0.44748	7.8517	0.46021	8.3256	0.47257	8.8135
$\frac{21}{32}$	0.44788	7.8663	0.46060	8.3407	0.47295	8.8289
$\frac{11}{16}$	0.44829	7.8809	0.46099	8.3557	0.47333	8.8444
$\frac{23}{32}$	0.44869	7.8955	0.46138	8.3708	0.47372	8.8599
$\frac{3}{4}$	0.44909	7.9102	0.46177	8.3859	0.47409	8.8754
$\frac{25}{32}$	0.44949	7.9248	0.46216	8.4009	0.47447	8.8910
$\frac{13}{16}$	0.44990	7.9395	0.46255	8.4160	0.47485	8.9065
$\frac{27}{32}$	0.45030	7.9542	0.46294	8.4312	0.47523	8.9220
$\frac{7}{8}$	0.45070	7.9689	0.46333	8.4463	0.47561	8.9376
$\frac{29}{32}$	0.45110	7.9836	0.46372	8.4614	0.47599	8.9532
$\frac{15}{16}$	0.45150	7.9983	0.46411	8.4766	0.47637	8.9688
$\frac{31}{32}$	0.45190	8.0130	0.46450	8.4918	0.47674	8.9844
1	0.45230	8.0278	0.46489	8.5069	0.47712	9.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.47712	9.0000	0.48902	9.5069	0.50060	10.0278
$\frac{1}{32}$	0.47750	9.0156	0.48939	9.5230	0.50096	10.0443
$\frac{1}{16}$	0.47787	9.0313	0.48975	9.5391	0.50132	10.0608
$\frac{3}{32}$	0.47825	9.0469	0.49012	9.5552	0.50167	10.0773
$\frac{1}{8}$	0.47863	9.0626	0.49049	9.5713	0.50203	10.0939
$\frac{5}{32}$	0.47900	9.0783	0.49085	9.5874	0.50238	10.1104
$\frac{3}{16}$	0.47938	9.0940	0.49122	9.6035	0.50274	10.1270
$\frac{7}{32}$	0.47975	9.1097	0.49158	9.6197	0.50310	10.1436
$\frac{1}{4}$	0.48013	9.1254	0.49195	9.6359	0.50345	10.1602
$\frac{9}{32}$	0.48050	9.1412	0.49231	9.6520	0.50380	10.1768
$\frac{5}{16}$	0.48087	9.1569	0.49267	9.6682	0.50416	10.1934
$1\frac{1}{32}$	0.48125	9.1727	0.49304	9.6844	0.50451	10.2100
$\frac{3}{8}$	0.48162	9.1885	0.49340	9.7006	0.50487	10.2267
$1\frac{3}{32}$	0.48199	9.2043	0.49376	9.7169	0.50522	10.2433
$\frac{7}{16}$	0.48237	9.2201	0.49413	9.7331	0.50557	10.2600
$1\frac{5}{32}$	0.48274	9.2359	0.49449	9.7494	0.50593	10.2767
$\frac{1}{2}$	0.48311	9.2517	0.49485	9.7656	0.50628	10.2934
$1\frac{7}{32}$	0.48348	9.2676	0.49521	9.7819	0.50663	10.3101
$\frac{9}{16}$	0.48385	9.2834	0.49557	9.7982	0.50698	10.3269
$1\frac{9}{32}$	0.48423	9.2993	0.49593	9.8145	0.50734	10.3436
$\frac{5}{8}$	0.48460	9.3152	0.49630	9.8308	0.50769	10.3604
$2\frac{1}{32}$	0.48497	9.3311	0.49666	9.8472	0.50804	10.3771
$1\frac{11}{16}$	0.48534	9.3470	0.49702	9.8635	0.50839	10.3939
$2\frac{3}{32}$	0.48571	9.3630	0.49738	9.8799	0.50874	10.4107
$\frac{3}{4}$	0.48608	9.3789	0.49774	9.8963	0.50909	10.4275
$2\frac{5}{32}$	0.48645	9.3949	0.49810	9.9127	0.50944	10.4443
$1\frac{13}{16}$	0.48681	9.4108	0.49845	9.9291	0.50979	10.4612
$2\frac{7}{32}$	0.48718	9.4268	0.49881	9.9455	0.51014	10.4780
$\frac{7}{8}$	0.48755	9.4428	0.49917	9.9619	0.51049	10.4949
$2\frac{9}{32}$	0.48792	9.4588	0.49953	9.9784	0.51084	10.5118
$1\frac{15}{16}$	0.48829	9.4749	0.49989	9.9948	0.51119	10.5287
$3\frac{1}{32}$	0.48865	9.4909	0.50025	10.0113	0.51154	10.5456
1	0.48902	9.5069	0.50060	10.0278	0.51188	10.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.51188	10.5625	0.52288	11.1111	0.53360	11.6736
$\frac{1}{32}$	0.51223	10.5794	0.52322	11.1285	0.53393	11.6914
$\frac{1}{16}$	0.51258	10.5964	0.52356	11.1459	0.53426	11.7092
$\frac{3}{32}$	0.51293	10.6133	0.52390	11.1633	0.53459	11.7271
$\frac{1}{8}$	0.51327	10.6303	0.52423	11.1807	0.53492	11.7449
$\frac{5}{32}$	0.51362	10.6473	0.52457	11.1981	0.53525	11.7628
$\frac{3}{16}$	0.51397	10.6643	0.52491	11.2155	0.53558	11.7806
$\frac{7}{32}$	0.51431	10.6813	0.52525	11.2330	0.53591	11.7985
$\frac{1}{4}$	0.51466	10.6984	0.52558	11.2504	0.53624	11.8164
$\frac{9}{32}$	0.51500	10.7154	0.52592	11.2679	0.53657	11.8343
$\frac{5}{16}$	0.51535	10.7324	0.52626	11.2854	0.53690	11.8522
$\frac{11}{32}$	0.51569	10.7495	0.52660	11.3029	0.53723	11.8702
$\frac{3}{8}$	0.51604	10.7666	0.52693	11.3204	0.53756	11.8881
$\frac{13}{32}$	0.51638	10.7837	0.52727	11.3380	0.53788	11.9061
$\frac{7}{16}$	0.51673	10.8008	0.52760	11.3555	0.53821	11.9241
$\frac{15}{32}$	0.51707	10.8179	0.52794	11.3731	0.53854	11.9421
$\frac{1}{2}$	0.51742	10.8351	0.52827	11.3906	0.53887	11.9601
$\frac{17}{32}$	0.51776	10.8522	0.52861	11.4082	0.53919	11.9781
$\frac{9}{16}$	0.51810	10.8694	0.52894	11.4258	0.53952	11.9961
$\frac{19}{32}$	0.51845	10.8866	0.52928	11.4434	0.53985	12.0142
$\frac{5}{8}$	0.51879	10.9038	0.52961	11.4610	0.54017	12.0322
$\frac{21}{32}$	0.51913	10.9210	0.52995	11.4787	0.54050	12.0503
$\frac{11}{16}$	0.51947	10.9382	0.53028	11.4963	0.54082	12.0684
$\frac{23}{32}$	0.51981	10.9554	0.53061	11.5140	0.54115	12.0865
$\frac{3}{4}$	0.52016	10.9727	0.53095	11.5317	0.54148	12.1046
$\frac{25}{32}$	0.52050	10.9899	0.53128	11.5494	0.54180	12.1227
$\frac{13}{16}$	0.52084	11.0072	0.53161	11.5671	0.54212	12.1409
$\frac{27}{32}$	0.52118	11.0245	0.53194	11.5848	0.54245	12.1590
$\frac{7}{8}$	0.52152	11.0418	0.53228	11.6025	0.54277	12.1772
$\frac{29}{32}$	0.52186	11.0591	0.53261	11.6203	0.54310	12.1954
$\frac{15}{16}$	0.52220	11.0764	0.53294	11.6380	0.54342	12.2136
$\frac{31}{32}$	0.52254	11.0938	0.53327	11.6558	0.54374	12.2318
1	0.52288	11.1111	0.53360	11.6736	0.54407	12.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.54407	12.2500	0.55429	12.8403	0.56427	13.4444
$\frac{1}{32}$	0.54439	12.2682	0.55460	12.8589	0.56458	13.4635
$\frac{1}{16}$	0.54471	12.2865	0.55492	12.8776	0.56489	13.4827
$\frac{3}{32}$	0.54504	12.3047	0.55523	12.8963	0.56520	13.5018
$\frac{1}{8}$	0.54536	12.3230	0.55555	12.9150	0.56550	13.5209
$\frac{5}{32}$	0.54568	12.3413	0.55586	12.9338	0.56581	13.5401
$\frac{3}{16}$	0.54600	12.3596	0.55618	12.9525	0.56612	13.5593
$\frac{7}{32}$	0.54632	12.3779	0.55649	12.9713	0.56643	13.5785
$\frac{1}{4}$	0.54665	12.3963	0.55680	12.9900	0.56673	13.5977
$\frac{9}{32}$	0.54697	12.4146	0.55712	13.0088	0.56704	13.6169
$\frac{5}{16}$	0.54729	12.4330	0.55743	13.0276	0.56735	13.6361
$\frac{11}{32}$	0.54761	12.4513	0.55775	13.0464	0.56765	13.6553
$\frac{3}{8}$	0.54793	12.4697	0.55806	13.0652	0.56796	13.6746
$\frac{13}{32}$	0.54825	12.4881	0.55837	13.0840	0.56826	13.6939
$\frac{7}{16}$	0.54857	12.5065	0.55868	13.1029	0.56857	13.7131
$\frac{15}{32}$	0.54889	12.5250	0.55900	13.1218	0.56887	13.7324
$\frac{1}{2}$	0.54921	12.5434	0.55931	13.1406	0.56918	13.7517
$\frac{17}{32}$	0.54953	12.5619	0.55962	13.1595	0.56948	13.7711
$\frac{9}{16}$	0.54985	12.5803	0.55993	13.1784	0.56979	13.7904
$\frac{19}{32}$	0.55016	12.5988	0.56024	13.1973	0.57009	13.8097
$\frac{5}{8}$	0.55048	12.6173	0.56055	13.2163	0.57040	13.8291
$\frac{21}{32}$	0.55080	12.6358	0.56087	13.2352	0.57070	13.8485
$\frac{11}{16}$	0.55112	12.6543	0.56118	13.2542	0.57100	13.8679
$\frac{23}{32}$	0.55144	12.6729	0.56149	13.2731	0.57131	13.8873
$\frac{3}{4}$	0.55175	12.6914	0.56180	13.2921	0.57161	13.9067
$\frac{25}{32}$	0.55207	12.7100	0.56211	13.3111	0.57191	13.9261
$\frac{13}{16}$	0.55239	12.7285	0.56242	13.3301	0.57222	13.9456
$\frac{27}{32}$	0.55271	12.7471	0.56273	13.3491	0.57252	13.9650
$\frac{7}{8}$	0.55302	12.7657	0.56304	13.3682	0.57282	13.9845
$\frac{29}{32}$	0.55334	12.7843	0.56335	13.3872	0.57313	14.0040
$\frac{15}{16}$	0.55366	12.8030	0.56365	13.4063	0.57343	14.0235
$\frac{31}{32}$	0.55397	12.8216	0.56396	13.4254	0.57373	14.0430
1	0.55429	12.8403	0.56427	13.4444	0.57403	14.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.57403	14.0625	0.58358	14.6944	0.59292	15.3403
$\frac{1}{32}$	0.57433	14.0820	0.58387	14.7144	0.59321	15.3607
$\frac{1}{16}$	0.57463	14.1016	0.58417	14.7344	0.59349	15.3811
$\frac{3}{32}$	0.57494	14.1212	0.58446	14.7544	0.59378	15.4015
$\frac{1}{8}$	0.57524	14.1407	0.58476	14.7744	0.59407	15.4220
$\frac{5}{32}$	0.57554	14.1603	0.58505	14.7944	0.59436	15.4424
$\frac{3}{16}$	0.57584	14.1799	0.58534	14.8145	0.59465	15.4629
$\frac{7}{32}$	0.57614	14.1996	0.58564	14.8345	0.59493	15.4834
$\frac{1}{4}$	0.57644	14.2192	0.58593	14.8546	0.59522	15.5039
$\frac{9}{32}$	0.57674	14.2388	0.58622	14.8747	0.59551	15.5244
$\frac{5}{16}$	0.57704	14.2585	0.58652	14.8948	0.59579	15.5449
$\frac{11}{32}$	0.57734	14.2782	0.58681	14.9149	0.59608	15.5655
$\frac{3}{8}$	0.57764	14.2979	0.58710	14.9350	0.59637	15.5860
$\frac{13}{32}$	0.57793	14.3176	0.58740	14.9551	0.59665	15.6066
$\frac{7}{16}$	0.57823	14.3373	0.58769	14.9753	0.59694	15.6272
$\frac{15}{32}$	0.57853	14.3570	0.58798	14.9954	0.59723	15.6478
$\frac{1}{2}$	0.57883	14.3767	0.58827	15.0156	0.59751	15.6684
$\frac{17}{32}$	0.57913	14.3965	0.58856	15.0358	0.59780	15.6890
$\frac{9}{16}$	0.57943	14.4163	0.58886	15.0560	0.59808	15.7097
$\frac{19}{32}$	0.57972	14.4360	0.58915	15.0762	0.59837	15.7303
$\frac{5}{8}$	0.58002	14.4558	0.58944	15.0965	0.59865	15.7510
$\frac{21}{32}$	0.58032	14.4756	0.58973	15.1167	0.59894	15.7717
$\frac{11}{16}$	0.58062	14.4955	0.59002	15.1370	0.59922	15.7923
$\frac{23}{32}$	0.58091	14.5153	0.59031	15.1572	0.59951	15.8130
$\frac{3}{4}$	0.58121	14.5352	0.59060	15.1775	0.59979	15.8338
$\frac{25}{32}$	0.58151	14.5550	0.59089	15.1978	0.60008	15.8545
$\frac{13}{16}$	0.58180	14.5749	0.59118	15.2181	0.60036	15.8752
$\frac{27}{32}$	0.58210	14.5948	0.59147	15.2385	0.60064	15.8960
$\frac{7}{8}$	0.58239	14.6147	0.59176	15.2588	0.60093	15.9168
$\frac{29}{32}$	0.58269	14.6346	0.59205	15.2791	0.60121	15.9376
$\frac{15}{16}$	0.58299	14.6545	0.59234	15.2995	0.60149	15.9584
$\frac{31}{32}$	0.58328	14.6745	0.59263	15.3199	0.60178	15.9792
1	0.58358	14.6944	0.59292	15.3403	0.60206	16.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.60206	16.0000	0.61101	16.6736	0.61979	17.3611
$\frac{1}{32}$	0.60234	16.0208	0.61129	16.6949	0.62006	17.3828
$\frac{1}{16}$	0.60263	16.0417	0.61157	16.7162	0.62033	17.4045
$\frac{3}{32}$	0.60291	16.0626	0.61184	16.7375	0.62060	17.4263
$\frac{1}{8}$	0.60319	16.0834	0.61212	16.7588	0.62087	17.4480
$\frac{5}{32}$	0.60347	16.1043	0.61240	16.7801	0.62114	17.4698
$\frac{3}{16}$	0.60375	16.1252	0.61267	16.8015	0.62141	17.4916
$\frac{7}{32}$	0.60403	16.1462	0.61295	16.8228	0.62168	17.5134
$\frac{1}{4}$	0.60432	16.1671	0.61322	16.8442	0.62195	17.5352
$\frac{9}{32}$	0.60460	16.1880	0.61350	16.8656	0.62222	17.5570
$\frac{5}{16}$	0.60488	16.2090	0.61378	16.8870	0.62249	17.5788
$\frac{11}{32}$	0.60516	16.2300	0.61405	16.9084	0.62276	17.6006
$\frac{3}{8}$	0.60544	16.2510	0.61433	16.9298	0.62303	17.6225
$\frac{13}{32}$	0.60572	16.2720	0.61460	16.9512	0.62330	17.6444
$\frac{7}{16}$	0.60600	16.2930	0.61488	16.9727	0.62357	17.6663
$\frac{15}{32}$	0.60628	16.3140	0.61515	16.9941	0.62384	17.6882
$\frac{1}{2}$	0.60656	16.3351	0.61542	17.0156	0.62411	17.7101
$\frac{17}{32}$	0.60684	16.3561	0.61570	17.0371	0.62438	17.7320
$\frac{9}{16}$	0.60712	16.3772	0.61597	17.0586	0.62465	17.7539
$\frac{19}{32}$	0.60740	16.3983	0.61625	17.0801	0.62492	17.7759
$\frac{5}{8}$	0.60768	16.4194	0.61652	17.1017	0.62518	17.7979
$\frac{21}{32}$	0.60796	16.4405	0.61679	17.1232	0.62545	17.8198
$\frac{11}{16}$	0.60824	16.4616	0.61707	17.1448	0.62572	17.8418
$\frac{23}{32}$	0.60851	16.4828	0.61734	17.1663	0.62599	17.8638
$\frac{3}{4}$	0.60879	16.5039	0.61761	17.1879	0.62625	17.8859
$\frac{25}{32}$	0.60907	16.5251	0.61788	17.2095	0.62652	17.9079
$\frac{13}{16}$	0.60935	16.5463	0.61816	17.2311	0.62679	17.9299
$\frac{27}{32}$	0.60963	16.5674	0.61843	17.2528	0.62706	17.9520
$\frac{7}{8}$	0.60991	16.5886	0.61870	17.2744	0.62732	17.9741
$\frac{29}{32}$	0.61018	16.6099	0.61897	17.2961	0.62759	17.9962
$\frac{15}{16}$	0.61046	16.6311	0.61925	17.3177	0.62786	18.0183
$\frac{31}{32}$	0.61074	16.6524	0.61952	17.3394	0.62812	18.0404
1	0.61101	16.6736	0.61979	17.3611	0.62839	18.0625

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Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.62839	18.0625	0.63682	18.7778	0.64509	19.5069
$\frac{1}{32}$	0.62865	18.0846	0.63708	18.8004	0.64535	19.5300
$\frac{1}{16}$	0.62892	18.1068	0.63734	18.8229	0.64561	19.5530
$\frac{3}{32}$	0.62919	18.1290	0.63760	18.8455	0.64586	19.5760
$\frac{1}{8}$	0.62945	18.1512	0.63786	18.8682	0.64612	19.5991
$\frac{5}{32}$	0.62972	18.1733	0.63813	18.8908	0.64637	19.6221
$\frac{3}{16}$	0.62998	18.1956	0.63839	18.9134	0.64663	19.6452
$\frac{7}{32}$	0.63025	18.2178	0.63865	18.9361	0.64688	19.6683
$\frac{1}{4}$	0.63051	18.2400	0.63891	18.9588	0.64714	19.6914
$\frac{9}{32}$	0.63078	18.2623	0.63916	18.9815	0.64739	19.7145
$\frac{5}{16}$	0.63104	18.2845	0.63942	19.0042	0.64765	19.7377
$\frac{11}{32}$	0.63131	18.3068	0.63968	19.0269	0.64790	19.7608
$\frac{3}{8}$	0.63157	18.3291	0.63994	19.0496	0.64816	19.7840
$\frac{13}{32}$	0.63183	18.3514	0.64020	19.0723	0.64841	19.8071
$\frac{7}{16}$	0.63210	18.3737	0.64046	19.0951	0.64866	19.8303
$\frac{15}{32}$	0.63236	18.3961	0.64072	19.1178	0.64892	19.8535
$\frac{1}{2}$	0.63263	18.4184	0.64098	19.1406	0.64917	19.8767
$\frac{17}{32}$	0.63289	18.4408	0.64124	19.1634	0.64943	19.9000
$\frac{9}{16}$	0.63315	18.4631	0.64149	19.1862	0.64968	19.9232
$\frac{19}{32}$	0.63342	18.4855	0.64175	19.2090	0.64993	19.9465
$\frac{5}{8}$	0.63368	18.5079	0.64201	19.2319	0.65019	19.9697
$\frac{21}{32}$	0.63394	18.5303	0.64227	19.2547	0.65044	19.9930
$\frac{11}{16}$	0.63420	18.5528	0.64253	19.2776	0.65069	20.0163
$\frac{23}{32}$	0.63447	18.5752	0.64278	19.3005	0.65094	20.0396
$\frac{3}{4}$	0.63473	18.5977	0.64304	19.3234	0.65120	20.0629
$\frac{25}{32}$	0.63499	18.6201	0.64330	19.3463	0.65145	20.0863
$\frac{13}{16}$	0.63525	18.6426	0.64356	19.3692	0.65170	20.1096
$\frac{27}{32}$	0.63552	18.6651	0.64381	19.3921	0.65195	20.1330
$\frac{7}{8}$	0.63578	18.6876	0.64407	19.4150	0.65221	20.1564
$\frac{29}{32}$	0.63604	18.7101	0.64433	19.4380	0.65246	20.1797
$\frac{15}{16}$	0.63630	18.7327	0.64458	19.4610	0.65271	20.2032
$\frac{31}{32}$	0.63656	18.7552	0.64484	19.4839	0.65296	20.2266
1	0.63682	18.7778	0.64509	19.5069	0.65321	20.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.65321	20.2500	0.66118	21.0069	0.66901	21.7778
$\frac{1}{32}$	0.65346	20.2734	0.66143	21.0308	0.66925	21.8021
$\frac{1}{16}$	0.65371	20.2969	0.66167	21.0547	0.66949	21.8264
$\frac{3}{32}$	0.65397	20.3204	0.66192	21.0786	0.66973	21.8508
$\frac{1}{8}$	0.65422	20.3439	0.66217	21.1025	0.66998	21.8751
$\frac{5}{32}$	0.65447	20.3674	0.66241	21.1265	0.67022	21.8995
$\frac{3}{16}$	0.65472	20.3909	0.66266	21.1504	0.67046	21.9239
$\frac{7}{32}$	0.65497	20.4144	0.66291	21.1744	0.67070	21.9482
$\frac{1}{4}$	0.65522	20.4379	0.66315	21.1984	0.67094	21.9727
$\frac{9}{32}$	0.65547	20.4615	0.66340	21.2223	0.67118	21.9971
$\frac{5}{16}$	0.65572	20.4851	0.66364	21.2463	0.67142	22.0215
$\frac{11}{32}$	0.65597	20.5086	0.66389	21.2704	0.67166	22.0460
$\frac{3}{8}$	0.65622	20.5322	0.66413	21.2944	0.67191	22.0704
$\frac{13}{32}$	0.65647	20.5558	0.66438	21.3184	0.67215	22.0949
$\frac{7}{16}$	0.65672	20.5795	0.66462	21.3425	0.67239	22.1194
$\frac{15}{32}$	0.65697	20.6031	0.66487	21.3665	0.67263	22.1439
$\frac{1}{2}$	0.65722	20.6267	0.66511	21.3906	0.67287	22.1684
$\frac{17}{32}$	0.65746	20.6504	0.66536	21.4147	0.67311	22.1929
$\frac{9}{16}$	0.65771	20.6741	0.66560	21.4388	0.67335	22.2175
$\frac{19}{32}$	0.65796	20.6978	0.66584	21.4630	0.67359	22.2420
$\frac{5}{8}$	0.65821	20.7215	0.66609	21.4871	0.67383	22.2666
$\frac{21}{32}$	0.65846	20.7452	0.66633	21.5112	0.67407	22.2912
$\frac{11}{16}$	0.65871	20.7689	0.66658	21.5354	0.67431	22.3158
$\frac{23}{32}$	0.65895	20.7927	0.66682	21.5596	0.67455	22.3404
$\frac{3}{4}$	0.65920	20.8164	0.66706	21.5838	0.67478	22.3650
$\frac{25}{32}$	0.65945	20.8402	0.66731	21.6080	0.67502	22.3897
$\frac{13}{16}$	0.65970	20.8640	0.66755	21.6322	0.67526	22.4143
$\frac{27}{32}$	0.65995	20.8878	0.66779	21.6564	0.67550	22.4390
$\frac{7}{8}$	0.66019	20.9116	0.66804	21.6807	0.67574	22.4637
$\frac{29}{32}$	0.66044	20.9354	0.66828	21.7049	0.67598	22.4883
$\frac{15}{16}$	0.66069	20.9592	0.66852	21.7292	0.67622	22.5130
$\frac{31}{32}$	0.66093	20.9831	0.66876	21.7535	0.67646	22.5378
1	0.66118	21.0069	0.66901	21.7778	0.67669	22.5625

4'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.67669	22.5625	0.68425	23.3611	0.69167	24.1736
$\frac{1}{32}$	0.67693	22.5872	0.68448	23.3863	0.69190	24.1992
$\frac{1}{16}$	0.67717	22.6120	0.68471	23.4115	0.69213	24.2249
$\frac{3}{32}$	0.67741	22.6368	0.68495	23.4367	0.69236	24.2505
$\frac{1}{8}$	0.67764	22.6616	0.68518	23.4619	0.69259	24.2762
$\frac{5}{32}$	0.67788	22.6864	0.68542	23.4871	0.69282	24.3018
$\frac{3}{16}$	0.67812	22.7112	0.68565	23.5124	0.69305	24.3275
$\frac{7}{32}$	0.67836	22.7360	0.68588	23.5377	0.69328	24.3532
$\frac{1}{4}$	0.67859	22.7609	0.68611	23.5629	0.69351	24.3789
$\frac{9}{32}$	0.67883	22.7857	0.68635	23.5882	0.69374	24.4046
$\frac{5}{16}$	0.67907	22.8106	0.68658	23.6135	0.69396	24.4304
$\frac{11}{32}$	0.67930	22.8355	0.68681	23.6388	0.69419	24.4561
$\frac{3}{8}$	0.67954	22.8604	0.68705	23.6642	0.69442	24.4819
$\frac{13}{32}$	0.67978	22.8853	0.68728	23.6895	0.69465	24.5077
$\frac{7}{16}$	0.68001	22.9102	0.68751	23.7149	0.69488	24.5334
$\frac{15}{32}$	0.68025	22.9351	0.68774	23.7402	0.69511	24.5593
$\frac{1}{2}$	0.68049	22.9601	0.68797	23.7656	0.69534	24.5851
$\frac{17}{32}$	0.68072	22.9850	0.68821	23.7910	0.69556	24.6109
$\frac{9}{16}$	0.68096	23.0100	0.68844	23.8164	0.69579	24.6367
$\frac{19}{32}$	0.68119	23.0350	0.68867	23.8419	0.69602	24.6626
$\frac{5}{8}$	0.68143	23.0600	0.68890	23.8673	0.69625	24.6885
$\frac{21}{32}$	0.68167	23.0850	0.68913	23.8927	0.69647	24.7144
$\frac{11}{16}$	0.68190	23.1101	0.68936	23.9182	0.69670	24.7403
$\frac{23}{32}$	0.68214	23.1351	0.68960	23.9437	0.69693	24.7662
$\frac{3}{4}$	0.68237	23.1602	0.68983	23.9692	0.69716	24.7921
$\frac{25}{32}$	0.68261	23.1852	0.69006	23.9947	0.69738	24.8180
$\frac{13}{16}$	0.68284	23.2103	0.69029	24.0202	0.69761	24.8440
$\frac{27}{32}$	0.68308	23.2354	0.69052	24.0457	0.69784	24.8700
$\frac{7}{8}$	0.68331	23.2605	0.69075	24.0713	0.69806	24.8959
$\frac{29}{32}$	0.68354	23.2857	0.69098	24.0968	0.69829	24.9219
$\frac{15}{16}$	0.68378	23.3108	0.69121	24.1224	0.69852	24.9479
$\frac{31}{32}$	0.68401	23.3359	0.69144	24.1480	0.69874	24.9740
1	0.68425	23.3611	0.69167	24.1736	0.69897	25.0000

5'

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.69897	25.0000	0.70615	25.8403	0.71321	26.6944
$\frac{1}{32}$	0.69920	25.0260	0.70637	25.8668	0.71343	26.7214
$\frac{1}{16}$	0.69942	25.0521	0.70659	25.8933	0.71365	26.7483
$\frac{3}{32}$	0.69965	25.0782	0.70682	25.9198	0.71387	26.7752
$\frac{1}{8}$	0.69987	25.1043	0.70704	25.9463	0.71409	26.8022
$\frac{5}{32}$	0.70010	25.1304	0.70726	25.9728	0.71430	26.8292
$\frac{3}{16}$	0.70033	25.1565	0.70748	25.9994	0.71452	26.8561
$\frac{7}{32}$	0.70055	25.1826	0.70770	26.0259	0.71474	26.8831
$\frac{1}{4}$	0.70078	25.2088	0.70792	26.0525	0.71496	26.9102
$\frac{9}{32}$	0.70100	25.2349	0.70815	26.0791	0.71518	26.9372
$\frac{5}{16}$	0.70123	25.2611	0.70837	26.1057	0.71539	26.9642
$\frac{11}{32}$	0.70145	25.2873	0.70859	26.1323	0.71561	26.9913
$\frac{3}{8}$	0.70168	25.3135	0.70881	26.1590	0.71583	27.0183
$\frac{13}{32}$	0.70190	25.3397	0.70903	26.1856	0.71605	27.0454
$\frac{7}{16}$	0.70213	25.3659	0.70925	26.2123	0.71626	27.0725
$\frac{15}{32}$	0.70235	25.3922	0.70947	26.2389	0.71648	27.0996
$\frac{1}{2}$	0.70257	25.4184	0.70969	26.2656	0.71670	27.1267
$\frac{17}{32}$	0.70280	25.4447	0.70991	26.2923	0.71692	27.1539
$\frac{9}{16}$	0.70302	25.4709	0.71014	26.3190	0.71713	27.1810
$\frac{19}{32}$	0.70325	25.4972	0.71036	26.3458	0.71735	27.2082
$\frac{5}{8}$	0.70347	25.5235	0.71058	26.3725	0.71757	27.2354
$\frac{21}{32}$	0.70369	25.5499	0.71080	26.3993	0.71778	27.2625
$\frac{11}{16}$	0.70392	25.5762	0.71102	26.4260	0.71800	27.2897
$\frac{23}{32}$	0.70414	25.6025	0.71124	26.4528	0.71822	27.3170
$\frac{3}{4}$	0.70437	25.6289	0.71146	26.4796	0.71843	27.3442
$\frac{25}{32}$	0.70459	25.6553	0.71168	26.5064	0.71865	27.3714
$\frac{13}{16}$	0.70481	25.6817	0.71190	26.5332	0.71886	27.3987
$\frac{27}{32}$	0.70503	25.7081	0.71211	26.5601	0.71908	27.4260
$\frac{7}{8}$	0.70526	25.7345	0.71233	26.5869	0.71930	27.4532
$\frac{29}{32}$	0.70548	25.7609	0.71255	26.6138	0.71951	27.4805
$\frac{15}{16}$	0.70570	25.7874	0.71277	26.6407	0.71973	27.5078
$\frac{31}{32}$	0.70593	25.8138	0.71299	26.6675	0.71994	27.5352
1	0.70615	25.8403	0.71321	26.6944	0.72016	27.5625

5'

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.72016	27.5625	0.72700	28.4444	0.73373	29.3403
$\frac{1}{32}$	0.72037	27.5899	0.72721	28.4722	0.73394	29.3685
$\frac{1}{16}$	0.72059	27.6172	0.72742	28.5000	0.73415	29.3967
$\frac{3}{32}$	0.72081	27.6446	0.72763	28.5278	0.73436	29.4250
$\frac{1}{8}$	0.72102	27.6720	0.72785	28.5557	0.73457	29.4532
$\frac{5}{32}$	0.72124	27.6994	0.72806	28.5835	0.73477	29.4815
$\frac{3}{16}$	0.72145	27.7268	0.72827	28.6114	0.73498	29.5098
$\frac{7}{32}$	0.72166	27.7542	0.72848	28.6392	0.73519	29.5381
$\frac{1}{4}$	0.72188	27.7817	0.72869	28.6671	0.73540	29.5664
$\frac{9}{32}$	0.72209	27.8091	0.72890	28.6950	0.73561	29.5947
$\frac{5}{16}$	0.72231	27.8366	0.72911	28.7229	0.73582	29.6231
$\frac{11}{32}$	0.72252	27.8641	0.72933	28.7508	0.73602	29.6514
$\frac{3}{8}$	0.72274	27.8916	0.72954	28.7788	0.73623	29.6798
$\frac{13}{32}$	0.72295	27.9191	0.72975	28.8067	0.73644	29.7082
$\frac{7}{16}$	0.72316	27.9466	0.72996	28.8347	0.73665	29.7366
$\frac{15}{32}$	0.72338	27.9742	0.73017	28.8626	0.73685	29.7650
$\frac{1}{2}$	0.72359	28.0017	0.73038	28.8906	0.73706	29.7934
$\frac{17}{32}$	0.72381	28.0293	0.73059	28.9186	0.73727	29.8218
$\frac{9}{16}$	0.72402	28.0569	0.73080	28.9466	0.73747	29.8503
$\frac{19}{32}$	0.72423	28.0845	0.73101	28.9747	0.73768	29.8788
$\frac{5}{8}$	0.72445	28.1121	0.73122	29.0027	0.73789	29.9072
$\frac{21}{32}$	0.72466	28.1397	0.73143	29.0308	0.73809	29.9357
$\frac{11}{16}$	0.72487	28.1673	0.73164	29.0588	0.73830	29.9642
$\frac{23}{32}$	0.72509	28.1950	0.73185	29.0869	0.73851	29.9927
$\frac{3}{4}$	0.72530	28.2227	0.73206	29.1150	0.73871	30.0213
$\frac{25}{32}$	0.72551	28.2503	0.73227	29.1431	0.73892	30.0498
$\frac{13}{16}$	0.72572	28.2780	0.73248	29.1713	0.73913	30.0784
$\frac{27}{32}$	0.72594	28.3057	0.73269	29.1994	0.73933	30.1069
$\frac{7}{8}$	0.72615	28.3334	0.73290	29.2275	0.73954	30.1355
$\frac{29}{32}$	0.72636	28.3612	0.73311	29.2557	0.73975	30.1641
$\frac{15}{16}$	0.72657	28.3889	0.73331	29.2839	0.73995	30.1927
$\frac{31}{32}$	0.72679	28.4167	0.73352	29.3121	0.74016	30.2214
1	0.72700	28.4444	0.73373	29.3403	0.74036	30.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.74036	30.2500	0.74689	31.1736	0.75333	32.1111
$\frac{1}{32}$	0.74057	30.2787	0.74710	31.2027	0.75353	32.1406
$\frac{1}{16}$	0.74077	30.3073	0.74730	31.2318	0.75373	32.1702
$\frac{3}{32}$	0.74098	30.3360	0.74750	31.2609	0.75393	32.1997
$\frac{1}{8}$	0.74118	30.3647	0.74770	31.2900	0.75413	32.2293
$\frac{5}{32}$	0.74139	30.3934	0.74791	31.3192	0.75432	32.2589
$\frac{3}{16}$	0.74159	30.4221	0.74811	31.3483	0.75452	32.2884
$\frac{7}{32}$	0.74180	30.4509	0.74831	31.3775	0.75472	32.3180
$\frac{1}{4}$	0.74200	30.4796	0.74851	31.4067	0.75492	32.3477
$\frac{9}{32}$	0.74221	30.5084	0.74871	31.4359	0.75512	32.3773
$\frac{5}{16}$	0.74241	30.5371	0.74891	31.4651	0.75532	32.4069
$\frac{11}{32}$	0.74262	30.5659	0.74912	31.4943	0.75552	32.4366
$\frac{3}{8}$	0.74282	30.5947	0.74932	31.5235	0.75572	32.4663
$\frac{13}{32}$	0.74303	30.6235	0.74952	31.5528	0.75591	32.4959
$\frac{7}{16}$	0.74323	30.6524	0.74972	31.5821	0.75611	32.5256
$\frac{15}{32}$	0.74344	30.6812	0.74992	31.6113	0.75631	32.5553
$\frac{1}{2}$	0.74364	30.7101	0.75012	31.6406	0.75651	32.5851
$\frac{17}{32}$	0.74384	30.7389	0.75032	31.6699	0.75671	32.6148
$\frac{9}{16}$	0.74405	30.7678	0.75052	31.6992	0.75691	32.6446
$\frac{19}{32}$	0.74425	30.7967	0.75073	31.7286	0.75710	32.6743
$\frac{5}{8}$	0.74446	30.8256	0.75093	31.7579	0.75730	32.7041
$\frac{21}{32}$	0.74466	30.8546	0.75113	31.7873	0.75750	32.7339
$\frac{11}{16}$	0.74486	30.8835	0.75133	31.8167	0.75770	32.7637
$\frac{23}{32}$	0.74507	30.9124	0.75153	31.8460	0.75789	32.7935
$\frac{3}{4}$	0.74527	30.9414	0.75173	31.8754	0.75809	32.8234
$\frac{25}{32}$	0.74547	30.9704	0.75193	31.9048	0.75829	32.8532
$\frac{13}{16}$	0.74568	30.9994	0.75213	31.9343	0.75849	32.8831
$\frac{27}{32}$	0.74588	31.0284	0.75233	31.9637	0.75868	32.9129
$\frac{7}{8}$	0.74608	31.0574	0.75253	31.9932	0.75888	32.9428
$\frac{29}{32}$	0.74629	31.0864	0.75273	32.0226	0.75908	32.9727
$\frac{15}{16}$	0.74649	31.1155	0.75293	32.0521	0.75927	33.0026
$\frac{31}{32}$	0.74669	31.1445	0.75313	32.0816	0.75947	33.0326
1	0.74689	31.1736	0.75333	32.1111	0.75967	33.0625

5'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.75967	33.0625	0.76592	34.0278	0.77208	35.0069
$\frac{1}{32}$	0.75986	33.0925	0.76611	34.0582	0.77227	35.0378
$\frac{1}{16}$	0.76006	33.1224	0.76630	34.0886	0.77246	35.0686
$\frac{3}{32}$	0.76026	33.1524	0.76650	34.1190	0.77265	35.0995
$\frac{1}{8}$	0.76045	33.1824	0.76669	34.1494	0.77284	35.1303
$\frac{5}{32}$	0.76065	33.2124	0.76689	34.1799	0.77303	35.1612
$\frac{3}{16}$	0.76085	33.2424	0.76708	34.2103	0.77322	35.1921
$\frac{7}{32}$	0.76104	33.2725	0.76727	34.2408	0.77341	35.2230
$\frac{1}{4}$	0.76124	33.3025	0.76747	34.2713	0.77360	35.2539
$\frac{9}{32}$	0.76143	33.3326	0.76766	34.3018	0.77379	35.2848
$\frac{5}{16}$	0.76163	33.3627	0.76785	34.3323	0.77398	35.3158
$\frac{11}{32}$	0.76183	33.3927	0.76804	34.3628	0.77417	35.3467
$\frac{3}{8}$	0.76202	33.4229	0.76824	34.3933	0.77436	35.3777
$\frac{13}{32}$	0.76222	33.4530	0.76843	34.4239	0.77455	35.4087
$\frac{7}{16}$	0.76241	33.4831	0.76862	34.4545	0.77475	35.4397
$\frac{15}{32}$	0.76261	33.5132	0.76882	34.4850	0.77493	35.4707
$\frac{1}{2}$	0.76280	33.5434	0.76901	34.5156	0.77512	35.5017
$\frac{17}{32}$	0.76300	33.5736	0.76920	34.5462	0.77531	35.5328
$\frac{9}{16}$	0.76319	33.6038	0.76939	34.5769	0.77550	35.5638
$\frac{19}{32}$	0.76339	33.6340	0.76959	34.6075	0.77569	35.5949
$\frac{5}{8}$	0.76358	33.6642	0.76978	34.6381	0.77588	35.6260
$\frac{21}{32}$	0.76378	33.6944	0.76997	34.6688	0.77607	35.6571
$\frac{11}{16}$	0.76397	33.7246	0.77016	34.6995	0.77626	35.6882
$\frac{23}{32}$	0.76417	33.7549	0.77035	34.7302	0.77645	35.7193
$\frac{3}{4}$	0.76436	33.7852	0.77055	34.7609	0.77664	35.7504
$\frac{25}{32}$	0.76456	33.8154	0.77074	34.7916	0.77683	35.7816
$\frac{13}{16}$	0.76475	33.8457	0.77093	34.8223	0.77702	35.8127
$\frac{27}{32}$	0.76495	33.8760	0.77112	34.8530	0.77721	35.8439
$\frac{7}{8}$	0.76514	33.9064	0.77131	34.8838	0.77740	35.8751
$\frac{29}{32}$	0.76533	33.9367	0.77150	34.9146	0.77759	35.9063
$\frac{15}{16}$	0.76553	33.9670	0.77169	34.9453	0.77777	35.9375
$\frac{31}{32}$	0.76572	33.9974	0.77189	34.9761	0.77796	35.9688
1	0.76592	34.0278	0.77208	35.0069	0.77815	36.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.77815	36.0000	0.78414	37.0069	0.79005	38.0278
$\frac{1}{32}$	0.77834	36.0313	0.78433	37.0386	0.79023	38.0599
$\frac{1}{16}$	0.77853	36.0625	0.78451	37.0703	0.79042	38.0920
$\frac{3}{32}$	0.77872	36.0938	0.78470	37.1021	0.79060	38.1242
$\frac{1}{8}$	0.77890	36.1251	0.78488	37.1338	0.79078	38.1564
$\frac{5}{32}$	0.77909	36.1564	0.78507	37.1655	0.79097	38.1885
$\frac{3}{16}$	0.77928	36.1877	0.78526	37.1973	0.79115	38.2207
$\frac{7}{32}$	0.77947	36.2191	0.78544	37.2291	0.79133	38.2529
$\frac{1}{4}$	0.77966	36.2504	0.78563	37.2609	0.79152	38.2852
$\frac{9}{32}$	0.77984	36.2818	0.78581	37.2926	0.79170	38.3174
$\frac{5}{16}$	0.78003	36.3132	0.78600	37.3245	0.79188	38.3496
$\frac{11}{32}$	0.78022	36.3446	0.78618	37.3563	0.79206	38.3819
$\frac{3}{8}$	0.78041	36.3760	0.78637	37.3881	0.79225	38.4142
$\frac{13}{32}$	0.78059	36.4074	0.78655	37.4200	0.79243	38.4465
$\frac{7}{16}$	0.78078	36.4388	0.78674	37.4518	0.79261	38.4788
$\frac{15}{32}$	0.78097	36.4703	0.78692	37.4837	0.79279	38.5111
$\frac{1}{2}$	0.78116	36.5017	0.78711	37.5156	0.79298	38.5434
$\frac{17}{32}$	0.78134	36.5332	0.78729	37.5475	0.79316	38.5757
$\frac{9}{16}$	0.78153	36.5647	0.78748	37.5795	0.79334	38.6081
$\frac{19}{32}$	0.78172	36.5962	0.78766	37.6114	0.79352	38.6405
$\frac{5}{8}$	0.78190	36.6277	0.78784	37.6433	0.79370	38.6729
$\frac{21}{32}$	0.78209	36.6592	0.78803	37.6753	0.79388	38.7052
$\frac{11}{16}$	0.78228	36.6908	0.78821	37.7073	0.79407	38.7377
$\frac{23}{32}$	0.78247	36.7223	0.78840	37.7393	0.79425	38.7701
$\frac{3}{4}$	0.78265	36.7539	0.78858	37.7713	0.79443	38.8025
$\frac{25}{32}$	0.78284	36.7855	0.78876	37.8033	0.79461	38.8350
$\frac{13}{16}$	0.78302	36.8171	0.78895	37.8353	0.79479	38.8674
$\frac{27}{32}$	0.78321	36.8487	0.78913	37.8674	0.79497	38.8999
$\frac{7}{8}$	0.78340	36.8803	0.78932	37.8994	0.79516	38.9324
$\frac{29}{32}$	0.78358	36.9120	0.78950	37.9315	0.79534	38.9649
$\frac{15}{16}$	0.78377	36.9436	0.78968	37.9636	0.79552	38.9974
$\frac{31}{32}$	0.78396	36.9753	0.78987	37.9957	0.79570	39.0300
1	0.78414	37.0069	0.79005	38.0278	0.79588	39.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.79588	39.0625	0.80163	40.1111	0.80731	41.1736
$\frac{1}{32}$	0.79606	39.0951	0.80181	40.1441	0.80749	41.2070
$\frac{1}{16}$	0.79624	39.1276	0.80199	40.1771	0.80766	41.2405
$\frac{3}{32}$	0.79642	39.1602	0.80217	40.2101	0.80784	41.2739
$\frac{1}{8}$	0.79660	39.1928	0.80235	40.2432	0.80801	41.3074
$\frac{5}{32}$	0.79678	39.2254	0.80252	40.2762	0.80819	41.3409
$\frac{3}{16}$	0.79696	39.2581	0.80270	40.3093	0.80837	41.3744
$\frac{7}{32}$	0.79714	39.2907	0.80288	40.3423	0.80854	41.4079
$\frac{1}{4}$	0.79733	39.3234	0.80306	40.3754	0.80872	41.4414
$\frac{9}{32}$	0.79751	39.3560	0.80324	40.4085	0.80889	41.4749
$\frac{5}{16}$	0.79769	39.3887	0.80341	40.4417	0.80907	41.5085
$\frac{11}{32}$	0.79787	39.4214	0.80359	40.4748	0.80924	41.5421
$\frac{3}{8}$	0.79805	39.4541	0.80377	40.5079	0.80942	41.5756
$\frac{13}{32}$	0.79823	39.4868	0.80395	40.5411	0.80959	41.6092
$\frac{7}{16}$	0.79841	39.5196	0.80413	40.5742	0.80977	41.6428
$\frac{15}{32}$	0.79859	39.5523	0.80430	40.6074	0.80995	41.6764
$\frac{1}{2}$	0.79877	39.5851	0.80448	40.6406	0.81012	41.7101
$\frac{17}{32}$	0.79895	39.6178	0.80466	40.6738	0.81030	41.7437
$\frac{9}{16}$	0.79913	39.6506	0.80483	40.7071	0.81047	41.7774
$\frac{19}{32}$	0.79930	39.6834	0.80501	40.7403	0.81065	41.8110
$\frac{5}{8}$	0.79948	39.7163	0.80519	40.7735	0.81082	41.8447
$\frac{21}{32}$	0.79966	39.7491	0.80537	40.8068	0.81100	41.8784
$\frac{11}{16}$	0.79984	39.7819	0.80554	40.8401	0.81117	41.9121
$\frac{23}{32}$	0.80002	39.8148	0.80572	40.8734	0.81134	41.9459
$\frac{3}{4}$	0.80020	39.8477	0.80590	40.9067	0.81152	41.9796
$\frac{25}{32}$	0.80038	39.8805	0.80607	40.9400	0.81169	42.0134
$\frac{13}{16}$	0.80056	39.9134	0.80625	40.9733	0.81187	42.0471
$\frac{27}{32}$	0.80074	39.9464	0.80643	41.0067	0.81204	42.0809
$\frac{7}{8}$	0.80092	39.9793	0.80660	41.0400	0.81222	42.1147
$\frac{29}{32}$	0.80110	40.0122	0.80678	41.0734	0.81239	42.1485
$\frac{15}{16}$	0.80128	40.0452	0.80696	41.1068	0.81257	42.1823
$\frac{31}{32}$	0.80145	40.0781	0.80713	41.1402	0.81274	42.2162
1	0.80163	40.1111	0.80731	41.1736	0.81291	42.2500

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.84510	49.0000	0.85024	50.1736	0.85532	51.3611
$\frac{1}{32}$	0.84526	49.0365	0.85040	50.2105	0.85547	51.3984
$\frac{1}{16}$	0.84542	49.0729	0.85056	50.2474	0.85563	51.4358
$\frac{3}{32}$	0.84558	49.1094	0.85072	50.2843	0.85579	51.4732
$\frac{1}{8}$	0.84574	49.1459	0.85088	50.3213	0.85595	51.5105
$\frac{5}{32}$	0.84591	49.1825	0.85104	50.3582	0.85611	51.5479
$\frac{3}{16}$	0.84607	49.2190	0.85119	50.3952	0.85626	51.5853
$\frac{7}{32}$	0.84623	49.2555	0.85135	50.4322	0.85642	51.6227
$\frac{1}{4}$	0.84639	49.2921	0.85151	50.4692	0.85658	51.6602
$\frac{9}{32}$	0.84655	49.3287	0.85167	50.5062	0.85674	51.6976
$\frac{5}{16}$	0.84671	49.3653	0.85183	50.5432	0.85689	51.7351
$1\frac{1}{32}$	0.84687	49.4019	0.85199	50.5802	0.85705	51.7725
$\frac{3}{8}$	0.84703	49.4385	0.85215	50.6173	0.85721	51.8100
$1\frac{3}{32}$	0.84719	49.4751	0.85231	50.6544	0.85736	51.8475
$\frac{7}{16}$	0.84735	49.5117	0.85247	50.6914	0.85752	51.8850
$1\frac{5}{32}$	0.84751	49.5484	0.85263	50.7285	0.85768	51.9225
$\frac{1}{2}$	0.84768	49.5851	0.85278	50.7656	0.85783	51.9601
$1\frac{7}{32}$	0.84784	49.6218	0.85294	50.8027	0.85799	51.9976
$\frac{9}{16}$	0.84800	49.6584	0.85310	50.8399	0.85815	52.0352
$1\frac{9}{32}$	0.84816	49.6952	0.85326	50.8770	0.85831	52.0728
$\frac{5}{8}$	0.84832	49.7319	0.85342	50.9142	0.85846	52.1104
$1\frac{11}{32}$	0.84848	49.7686	0.85358	50.9513	0.85862	52.1480
$1\frac{1}{16}$	0.84864	49.8054	0.85374	50.9885	0.85878	52.1856
$1\frac{13}{32}$	0.84880	49.8421	0.85389	51.0257	0.85893	52.2232
$\frac{3}{4}$	0.84896	49.8789	0.85405	51.0629	0.85909	52.2609
$1\frac{15}{32}$	0.84912	49.9157	0.85421	51.1002	0.85924	52.2985
$1\frac{3}{16}$	0.84928	49.9525	0.85437	51.1374	0.85940	52.3362
$1\frac{17}{32}$	0.84944	49.9893	0.85453	51.1746	0.85956	52.3739
$\frac{7}{8}$	0.84960	50.0261	0.85469	51.2119	0.85971	52.4116
$1\frac{19}{32}$	0.84976	50.0630	0.85484	51.2492	0.85987	52.4493
$1\frac{1}{8}$	0.84992	50.0999	0.85500	51.2865	0.86003	52.4870
$1\frac{21}{32}$	0.85008	50.1367	0.85516	51.3238	0.86018	52.5247
1	0.85024	50.1736	0.85532	51.3611	0.86034	52.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.86034	52.5625	0.86530	53.7778	0.87021	55.0069
$\frac{1}{32}$	0.86049	52.6003	0.86546	53.8160	0.87036	55.0456
$\frac{1}{16}$	0.86065	52.6380	0.86561	53.8542	0.87051	55.0842
$\frac{3}{32}$	0.86081	52.6758	0.86576	53.8924	0.87067	55.1229
$\frac{1}{8}$	0.86096	52.7137	0.86592	53.9307	0.87082	55.1616
$\frac{5}{32}$	0.86112	52.7515	0.86607	53.9689	0.87097	55.2003
$\frac{3}{16}$	0.86127	52.7893	0.86623	54.0072	0.87112	55.2390
$\frac{7}{32}$	0.86143	52.8272	0.86638	54.0455	0.87127	55.2777
$\frac{1}{4}$	0.86158	52.8650	0.86653	54.0838	0.87143	55.3164
$\frac{9}{32}$	0.86174	52.9029	0.86669	54.1221	0.87158	55.3552
$\frac{5}{16}$	0.86190	52.9408	0.86684	54.1604	0.87173	55.3939
$\frac{11}{32}$	0.86205	52.9787	0.86699	54.1987	0.87188	55.4327
$\frac{3}{8}$	0.86221	53.0166	0.86715	54.2371	0.87203	55.4715
$\frac{13}{32}$	0.86236	53.0545	0.86730	54.2755	0.87219	55.5103
$\frac{7}{16}$	0.86252	53.0925	0.86746	54.3138	0.87234	55.5491
$\frac{15}{32}$	0.86267	53.1304	0.86761	54.3522	0.87249	55.5879
$\frac{1}{2}$	0.86283	53.1684	0.86776	54.3906	0.87264	55.6267
$\frac{17}{32}$	0.86298	53.2064	0.86792	54.4290	0.87279	55.6656
$\frac{9}{16}$	0.86314	53.2444	0.86807	54.4675	0.87294	55.7045
$\frac{19}{32}$	0.86329	53.2824	0.86822	54.5059	0.87310	55.7433
$\frac{5}{8}$	0.86345	53.3204	0.86838	54.5444	0.87325	55.7822
$\frac{21}{32}$	0.86360	53.3585	0.86853	54.5829	0.87340	55.8211
$\frac{11}{16}$	0.86376	53.3965	0.86868	54.6213	0.87355	55.8601
$\frac{23}{32}$	0.86391	53.4346	0.86883	54.6598	0.87370	55.8990
$\frac{3}{4}$	0.86407	53.4727	0.86899	54.6984	0.87385	55.9379
$\frac{25}{32}$	0.86422	53.5107	0.86914	54.7369	0.87400	55.9769
$\frac{13}{16}$	0.86438	53.5489	0.86929	54.7754	0.87416	56.0159
$\frac{27}{32}$	0.86453	53.5870	0.86945	54.8140	0.87431	56.0549
$\frac{7}{8}$	0.86468	53.6251	0.86960	54.8525	0.87446	56.0939
$\frac{29}{32}$	0.86484	53.6633	0.86975	54.8911	0.87461	56.1329
$\frac{15}{16}$	0.86499	53.7014	0.86990	54.9297	0.87476	56.1719
$\frac{31}{32}$	0.86515	53.7396	0.87006	54.9683	0.87491	56.2109
1	0.86530	53.7778	0.87021	55.0069	0.87506	56.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.87506	56.2500	0.87986	57.5069	0.88461	58.7778
$\frac{1}{32}$	0.87521	56.2891	0.88001	57.5464	0.88475	58.8177
$\frac{1}{16}$	0.87536	56.3282	0.88016	57.5860	0.88490	58.8577
$\frac{3}{32}$	0.87551	56.3672	0.88031	57.6255	0.88505	58.8976
$\frac{1}{8}$	0.87566	56.4064	0.88046	57.6650	0.88520	58.9376
$\frac{5}{32}$	0.87581	56.4455	0.88061	57.7046	0.88534	58.9776
$\frac{3}{16}$	0.87597	56.4846	0.88075	57.7442	0.88549	59.0176
$\frac{7}{32}$	0.87612	56.5238	0.88090	57.7838	0.88564	59.0576
$\frac{1}{4}$	0.87627	56.5629	0.88105	57.8234	0.88579	59.0977
$\frac{9}{32}$	0.87642	56.6021	0.88120	57.8630	0.88593	59.1377
$\frac{5}{16}$	0.87657	56.6413	0.88135	57.9026	0.88608	59.1778
$\frac{11}{32}$	0.87672	56.6805	0.88150	57.9422	0.88623	59.2178
$\frac{3}{8}$	0.87687	56.7197	0.88165	57.9819	0.88637	59.2579
$\frac{13}{32}$	0.87702	56.7590	0.88179	58.0215	0.88652	59.2980
$\frac{7}{16}$	0.87717	56.7982	0.88194	58.0612	0.88667	59.3381
$\frac{15}{32}$	0.87732	56.8375	0.88209	58.1009	0.88681	59.3783
$\frac{1}{2}$	0.87747	56.8767	0.88224	58.1406	0.88696	59.4184
$\frac{17}{32}$	0.87762	56.9160	0.88239	58.1803	0.88711	59.4586
$\frac{9}{16}$	0.87777	56.9553	0.88254	58.2201	0.88725	59.4987
$\frac{19}{32}$	0.87792	56.9946	0.88268	58.2598	0.88740	59.5389
$\frac{5}{8}$	0.87807	57.0340	0.88283	58.2996	0.88755	59.5791
$\frac{21}{32}$	0.87822	57.0733	0.88298	58.3394	0.88769	59.6193
$\frac{11}{16}$	0.87837	57.1127	0.88313	58.3792	0.88784	59.6595
$\frac{23}{32}$	0.87852	57.1520	0.88328	58.4190	0.88799	59.6998
$\frac{3}{4}$	0.87867	57.1914	0.88342	58.4588	0.88813	59.7400
$\frac{25}{32}$	0.87881	57.2308	0.88357	58.4986	0.88828	59.7803
$\frac{13}{16}$	0.87896	57.2702	0.88372	58.5384	0.88843	59.8206
$\frac{27}{32}$	0.87911	57.3096	0.88387	58.5783	0.88857	59.8608
$\frac{7}{8}$	0.87926	57.3491	0.88402	58.6182	0.88872	59.9011
$\frac{29}{32}$	0.87941	57.3885	0.88416	58.6580	0.88886	59.9415
$\frac{15}{16}$	0.87956	57.4280	0.88431	58.6979	0.88901	59.9818
$\frac{31}{32}$	0.87971	57.4675	0.88446	58.7379	0.88916	60.0221
1	0.87986	57.5069	0.88461	58.7778	0.88930	60.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.88930	60.0625	0.89395	61.3611	0.89854	62.6736
$\frac{1}{32}$	0.88945	60.1029	0.89409	61.4019	0.89869	62.7149
$\frac{1}{16}$	0.88959	60.1433	0.89424	61.4427	0.89883	62.7561
$\frac{3}{32}$	0.88974	60.1837	0.89438	61.4836	0.89897	62.7974
$\frac{1}{8}$	0.88989	60.2241	0.89452	61.5244	0.89911	62.8387
$\frac{5}{32}$	0.89003	60.2645	0.89467	61.5653	0.89926	62.8799
$\frac{3}{16}$	0.89018	60.3049	0.89481	61.6061	0.89940	62.9213
$\frac{7}{32}$	0.89032	60.3454	0.89496	61.6470	0.89954	62.9626
$\frac{1}{4}$	0.89047	60.3859	0.89510	61.6879	0.89968	63.0039
$\frac{9}{32}$	0.89061	60.4263	0.89524	61.7288	0.89983	63.0453
$\frac{5}{16}$	0.89076	60.4668	0.89539	61.7698	0.89997	63.0866
$\frac{11}{32}$	0.89090	60.5073	0.89553	61.8107	0.90011	63.1280
$\frac{3}{8}$	0.89105	60.5479	0.89568	61.8517	0.90025	63.1694
$\frac{13}{32}$	0.89119	60.5884	0.89582	61.8926	0.90040	63.2108
$\frac{7}{16}$	0.89134	60.6289	0.89596	61.9336	0.90054	63.2522
$\frac{15}{32}$	0.89149	60.6695	0.89611	61.9746	0.90068	63.2936
$\frac{1}{2}$	0.89163	60.7101	0.89625	62.0156	0.90082	63.3351
$\frac{17}{32}$	0.89178	60.7507	0.89639	62.0566	0.90096	63.3765
$\frac{9}{16}$	0.89192	60.7913	0.89654	62.0977	0.90111	63.4180
$\frac{19}{32}$	0.89207	60.8319	0.89668	62.1387	0.90125	63.4595
$\frac{5}{8}$	0.89221	60.8725	0.89682	62.1798	0.90139	63.5010
$\frac{21}{32}$	0.89236	60.9131	0.89697	62.2209	0.90153	63.5425
$\frac{11}{16}$	0.89250	60.9538	0.89711	62.2620	0.90167	63.5840
$\frac{23}{32}$	0.89265	60.9945	0.89725	62.3031	0.90182	63.6255
$\frac{3}{4}$	0.89279	61.0352	0.89740	62.3442	0.90196	63.6671
$\frac{25}{32}$	0.89293	61.0759	0.89754	62.3853	0.90210	63.7087
$\frac{13}{16}$	0.89308	61.1166	0.89768	62.4265	0.90224	63.7502
$\frac{27}{32}$	0.89322	61.1573	0.89783	62.4676	0.90238	63.7918
$\frac{7}{8}$	0.89337	61.1980	0.89797	62.5088	0.90252	63.8334
$\frac{29}{32}$	0.89351	61.2388	0.89811	62.5500	0.90267	63.8751
$\frac{15}{16}$	0.89366	61.2795	0.89826	62.5912	0.90281	63.9167
$\frac{31}{32}$	0.89380	61.3203	0.89840	62.6324	0.90295	63.9583
1	0.89395	61.3611	0.89854	62.6736	0.90309	64.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.90309	64.0000	0.90759	65.3403	0.91204	66.6944
$\frac{1}{32}$	0.90323	64.0417	0.90773	65.3824	0.91218	66.7370
$\frac{1}{16}$	0.90337	64.0834	0.90787	65.4245	0.91232	66.7795
$\frac{3}{32}$	0.90351	64.1251	0.90801	65.4666	0.91246	66.8221
$\frac{1}{8}$	0.90366	64.1668	0.90815	65.5088	0.91260	66.8647
$\frac{5}{32}$	0.90380	64.2085	0.90829	65.5510	0.91274	66.9073
$\frac{3}{16}$	0.90394	64.2502	0.90843	65.5931	0.91287	66.9499
$\frac{7}{32}$	0.90408	64.2920	0.90857	65.6353	0.91301	66.9925
$\frac{1}{4}$	0.90422	64.3338	0.90871	65.6775	0.91315	67.0352
$\frac{9}{32}$	0.90436	64.3755	0.90885	65.7197	0.91329	67.0778
$\frac{5}{16}$	0.90450	64.4173	0.90899	65.7620	0.91343	67.1205
$\frac{11}{32}$	0.90464	64.4592	0.90913	65.8042	0.91357	67.1631
$\frac{3}{8}$	0.90478	64.5010	0.90927	65.8465	0.91370	67.2058
$\frac{13}{32}$	0.90492	64.5428	0.90941	65.8887	0.91384	67.2485
$\frac{7}{16}$	0.90506	64.5847	0.90954	65.9310	0.91398	67.2913
$\frac{15}{32}$	0.90521	64.6265	0.90968	65.9733	0.91412	67.3340
$\frac{1}{2}$	0.90535	64.6684	0.90982	66.0156	0.91425	67.3767
$\frac{17}{32}$	0.90549	64.7103	0.90996	66.0579	0.91439	67.4195
$\frac{9}{16}$	0.90563	64.7522	0.91010	66.1003	0.91453	67.4623
$\frac{19}{32}$	0.90577	64.7941	0.91024	66.1426	0.91467	67.5051
$\frac{5}{8}$	0.90591	64.8360	0.91038	66.1850	0.91481	67.5479
$\frac{21}{32}$	0.90605	64.8780	0.91052	66.2274	0.91494	67.5907
$\frac{11}{16}$	0.90619	64.9199	0.91066	66.2698	0.91508	67.6335
$\frac{23}{32}$	0.90633	64.9619	0.91080	66.3122	0.91522	67.6763
$\frac{3}{4}$	0.90647	65.0039	0.91094	66.3546	0.91536	67.7192
$\frac{25}{32}$	0.90661	65.0459	0.91107	66.3970	0.91549	67.7621
$\frac{13}{16}$	0.90675	65.0879	0.91121	66.4395	0.91563	67.8049
$\frac{27}{32}$	0.90689	65.1299	0.91135	66.4819	0.91577	67.8478
$\frac{7}{8}$	0.90703	65.1720	0.91149	66.5244	0.91591	67.8907
$\frac{29}{32}$	0.90717	65.2140	0.91163	66.5669	0.91604	67.9337
$\frac{15}{16}$	0.90731	65.2561	0.91177	66.6094	0.91618	67.9766
$\frac{31}{32}$	0.90745	65.2982	0.91191	66.6519	0.91632	68.0195
1	0.90759	65.3403	0.91204	66.6944	0.91645	68.0625

8'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.91645	68.0625	0.92082	69.4444	0.92514	70.8403
$\frac{1}{32}$	0.91659	68.1055	0.92095	69.4879	0.92527	70.8841
$\frac{1}{16}$	0.91673	68.1485	0.92109	69.5313	0.92541	70.9280
$\frac{3}{32}$	0.91687	68.1915	0.92123	69.5747	0.92554	70.9718
$\frac{1}{8}$	0.91700	68.2345	0.92136	69.6182	0.92568	71.0157
$\frac{5}{32}$	0.91714	68.2775	0.92150	69.6616	0.92581	71.0596
$\frac{3}{16}$	0.91728	68.3206	0.92163	69.7051	0.92595	71.1035
$\frac{7}{32}$	0.91741	68.3636	0.92177	69.7486	0.92608	71.1475
$\frac{1}{4}$	0.91755	68.4067	0.92190	69.7921	0.92621	71.1914
$\frac{9}{32}$	0.91769	68.4498	0.92204	69.8356	0.92635	71.2354
$\frac{5}{16}$	0.91782	68.4929	0.92217	69.8792	0.92648	71.2793
$\frac{11}{32}$	0.91796	68.5360	0.92231	69.9227	0.92662	71.3233
$\frac{3}{8}$	0.91810	68.5791	0.92244	69.9663	0.92675	71.3673
$\frac{13}{32}$	0.91823	68.6222	0.92258	70.0098	0.92688	71.4113
$\frac{7}{16}$	0.91837	68.6654	0.92271	70.0534	0.92702	71.4553
$\frac{15}{32}$	0.91851	68.7086	0.92285	70.0970	0.92715	71.4994
$\frac{1}{2}$	0.91864	68.7517	0.92298	70.1406	0.92728	71.5434
$\frac{17}{32}$	0.91878	68.7949	0.92312	70.1843	0.92742	71.5875
$\frac{9}{16}$	0.91891	68.8381	0.92325	70.2279	0.92755	71.6315
$\frac{19}{32}$	0.91905	68.8814	0.92339	70.2715	0.92769	71.6756
$\frac{5}{8}$	0.91919	68.9246	0.92352	70.3152	0.92782	71.7197
$\frac{21}{32}$	0.91932	68.9678	0.92366	70.3589	0.92795	71.7638
$\frac{11}{16}$	0.91946	69.0111	0.92379	70.4026	0.92809	71.8080
$\frac{23}{32}$	0.91960	69.0544	0.92393	70.4463	0.92822	71.8521
$\frac{3}{4}$	0.91973	69.0977	0.92406	70.4900	0.92835	71.8963
$\frac{25}{32}$	0.91987	69.1410	0.92420	70.5338	0.92849	71.9404
$\frac{13}{16}$	0.92000	69.1843	0.92433	70.5775	0.92862	71.9846
$\frac{27}{32}$	0.92014	69.2276	0.92447	70.6213	0.92875	72.0288
$\frac{7}{8}$	0.92028	69.2709	0.92460	70.6650	0.92889	72.0730
$\frac{29}{32}$	0.92041	69.3143	0.92474	70.7088	0.92902	72.1172
$\frac{15}{16}$	0.92055	69.3577	0.92487	70.7526	0.92915	72.1615
$\frac{31}{32}$	0.92068	69.4010	0.92501	70.7964	0.92929	72.2057
1	0.92082	69.4444	0.92514	70.8403	0.92942	72.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.92942	72.2500	0.93366	73.6736	0.93785	75.1111
$\frac{1}{32}$	0.92955	72.2943	0.93379	73.7183	0.93798	75.1563
$\frac{1}{16}$	0.92968	72.3386	0.93392	73.7630	0.93811	75.2014
$\frac{3}{32}$	0.92982	72.3829	0.93405	73.8078	0.93824	75.2466
$\frac{1}{8}$	0.92995	72.4272	0.93418	73.8525	0.93837	75.2918
$\frac{5}{32}$	0.93008	72.4715	0.93431	73.8973	0.93850	75.3370
$\frac{3}{16}$	0.93022	72.5159	0.93445	73.9421	0.93863	75.3822
$\frac{7}{32}$	0.93035	72.5602	0.93458	73.9869	0.93876	75.4274
$\frac{1}{4}$	0.93048	72.6046	0.93471	74.0317	0.93889	75.4727
$\frac{9}{32}$	0.93061	72.6490	0.93484	74.0765	0.93903	75.5179
$\frac{5}{16}$	0.93075	72.6934	0.93497	74.1213	0.93916	75.5632
$\frac{11}{32}$	0.93088	72.7378	0.93510	74.1662	0.93929	75.6085
$\frac{3}{8}$	0.93101	72.7822	0.93523	74.2110	0.93942	75.6538
$\frac{13}{32}$	0.93115	72.8267	0.93537	74.2559	0.93955	75.6991
$\frac{7}{16}$	0.93128	72.8711	0.93550	74.3008	0.93968	75.7444
$\frac{15}{32}$	0.93141	72.9156	0.93563	74.3457	0.93981	75.7897
$\frac{1}{2}$	0.93154	72.9601	0.93576	74.3906	0.93994	75.8351
$\frac{17}{32}$	0.93168	73.0046	0.93589	74.4356	0.94006	75.8804
$\frac{9}{16}$	0.93181	73.0491	0.93602	74.4805	0.94019	75.9258
$\frac{19}{32}$	0.93194	73.0936	0.93615	74.5255	0.94032	75.9712
$\frac{5}{8}$	0.93207	73.1381	0.93628	74.5704	0.94045	76.0166
$\frac{21}{32}$	0.93220	73.1827	0.93641	74.6154	0.94058	76.0620
$\frac{11}{16}$	0.93234	73.2272	0.93655	74.6604	0.94071	76.1074
$\frac{23}{32}$	0.93247	73.2718	0.93668	74.7054	0.94084	76.1529
$\frac{3}{4}$	0.93260	73.3164	0.93681	74.7504	0.94097	76.1984
$\frac{25}{32}$	0.93273	73.3610	0.93694	74.7955	0.94110	76.2438
$\frac{13}{16}$	0.93286	73.4056	0.93707	74.8405	0.94123	76.2893
$\frac{27}{32}$	0.93300	73.4503	0.93720	74.8856	0.94136	76.3348
$\frac{7}{8}$	0.93313	73.4949	0.93733	74.9307	0.94149	76.3803
$\frac{29}{32}$	0.93326	73.5396	0.93746	74.9758	0.94162	76.4258
$\frac{15}{16}$	0.93339	73.5842	0.93759	75.0209	0.94175	76.4714
$\frac{31}{32}$	0.93352	73.6289	0.93772	75.0660	0.94188	76.5169
1	0.93366	73.6736	0.93785	75.1111	0.94201	76.5625

8'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.94201	76.5625	0.94612	78.0278	0.95020	79.5069
$\frac{1}{32}$	0.94214	76.6081	0.94625	78.0738	0.95033	79.5534
$\frac{1}{16}$	0.94227	76.6537	0.94638	78.1198	0.95046	79.5999
$\frac{3}{32}$	0.94240	76.6993	0.94651	78.1659	0.95058	79.6463
$\frac{1}{8}$	0.94252	76.7449	0.94664	78.2119	0.95071	79.6928
$\frac{5}{32}$	0.94265	76.7905	0.94676	78.2580	0.95084	79.7393
$\frac{3}{16}$	0.94278	76.8362	0.94689	78.3041	0.95096	79.7858
$\frac{7}{32}$	0.94291	76.8818	0.94702	78.3502	0.95109	79.8324
$\frac{1}{4}$	0.94304	76.9275	0.94715	78.3963	0.95122	79.8789
$\frac{9}{32}$	0.94317	76.9732	0.94728	78.4424	0.95134	79.9255
$\frac{5}{16}$	0.94330	77.0189	0.94740	78.4885	0.95147	79.9720
$\frac{11}{32}$	0.94343	77.0646	0.94753	78.5347	0.95160	80.0186
$\frac{3}{8}$	0.94356	77.1104	0.94766	78.5808	0.95172	80.0652
$\frac{13}{32}$	0.94369	77.1561	0.94779	78.6270	0.95185	80.1118
$\frac{7}{16}$	0.94381	77.2018	0.94791	78.6732	0.95197	80.1584
$\frac{15}{32}$	0.94394	77.2476	0.94804	78.7194	0.95210	80.2051
$\frac{1}{2}$	0.94407	77.2934	0.94817	78.7656	0.95223	80.2517
$\frac{17}{32}$	0.94420	77.3392	0.94830	78.8119	0.95235	80.2984
$\frac{9}{16}$	0.94433	77.3850	0.94842	78.8581	0.95248	80.3451
$\frac{19}{32}$	0.94446	77.4308	0.94855	78.9044	0.95261	80.3918
$\frac{5}{8}$	0.94459	77.4767	0.94868	78.9506	0.95273	80.4385
$\frac{21}{32}$	0.94471	77.5225	0.94881	78.9969	0.95286	80.4852
$\frac{11}{16}$	0.94484	77.5684	0.94893	79.0432	0.95298	80.5319
$\frac{23}{32}$	0.94497	77.6143	0.94906	79.0895	0.95311	80.5787
$\frac{3}{4}$	0.94510	77.6602	0.94919	79.1359	0.95324	80.6254
$\frac{25}{32}$	0.94523	77.7061	0.94931	79.1822	0.95336	80.6722
$\frac{13}{16}$	0.94536	77.7520	0.94944	79.2285	0.95349	80.7190
$\frac{27}{32}$	0.94548	77.7979	0.94957	79.2749	0.95361	80.7658
$\frac{7}{8}$	0.94561	77.8439	0.94969	79.3213	0.95374	80.8126
$\frac{29}{32}$	0.94574	77.8898	0.94982	79.3677	0.95387	80.8594
$\frac{15}{16}$	0.94587	77.9358	0.94995	79.4141	0.95399	80.9063
$\frac{31}{32}$	0.94600	77.9818	0.95008	79.4605	0.95412	80.9531
1	0.94612	78.0278	0.95020	79.5069	0.95424	81.0000

6'

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.81291	42.2500	0.81845	43.3403	0.82391	44.4444
$\frac{1}{8}$	0.81309	42.2839	0.81862	43.3746	0.82408	44.4792
$\frac{1}{16}$	0.81326	42.3177	0.81879	43.4089	0.82425	44.5139
$\frac{3}{32}$	0.81344	42.3516	0.81896	43.4432	0.82442	44.5487
$\frac{1}{8}$	0.81361	42.3855	0.81913	43.4775	0.82459	44.5834
$\frac{5}{32}$	0.81378	42.4194	0.81930	43.5119	0.82476	44.6182
$\frac{3}{16}$	0.81396	42.4534	0.81948	43.5463	0.82493	44.6530
$\frac{7}{32}$	0.81413	42.4873	0.81965	43.5806	0.82509	44.6878
$\frac{1}{4}$	0.81430	42.5213	0.81982	43.6150	0.82526	44.7227
$\frac{9}{32}$	0.81448	42.5552	0.81999	43.6494	0.82543	44.7575
$\frac{5}{16}$	0.81465	42.5892	0.82016	43.6838	0.82560	44.7923
$\frac{11}{32}$	0.81482	42.6232	0.82033	43.7183	0.82577	44.8272
$\frac{3}{8}$	0.81500	42.6572	0.82050	43.7527	0.82594	44.8621
$\frac{13}{32}$	0.81517	42.6913	0.82067	43.7872	0.82611	44.8970
$\frac{7}{16}$	0.81534	42.7253	0.82084	43.8216	0.82628	44.9319
$\frac{15}{32}$	0.81552	42.7593	0.82102	43.8561	0.82645	44.9668
$\frac{1}{2}$	0.81569	42.7934	0.82119	43.8906	0.82661	45.0017
$\frac{17}{32}$	0.81586	42.8275	0.82136	43.9251	0.82678	45.0367
$\frac{9}{16}$	0.81603	42.8616	0.82153	43.9597	0.82695	45.0716
$\frac{19}{32}$	0.81621	42.8957	0.82170	43.9942	0.82712	45.1066
$\frac{5}{8}$	0.81638	42.9298	0.82187	44.0288	0.82729	45.1416
$\frac{21}{32}$	0.81655	42.9639	0.82204	44.0633	0.82746	45.1766
$\frac{11}{16}$	0.81672	42.9981	0.82221	44.0979	0.82763	45.2116
$\frac{23}{32}$	0.81690	43.0322	0.82238	44.1325	0.82779	45.2466
$\frac{3}{4}$	0.81707	43.0664	0.82255	44.1671	0.82796	45.2817
$\frac{25}{32}$	0.81724	43.1006	0.82272	44.2017	0.82813	45.3167
$\frac{13}{16}$	0.81741	43.1348	0.82289	44.2364	0.82830	45.3518
$\frac{27}{32}$	0.81759	43.1690	0.82306	44.2710	0.82847	45.3869
$\frac{7}{8}$	0.81776	43.2032	0.82323	44.3057	0.82863	45.4220
$\frac{29}{32}$	0.81793	43.2375	0.82340	44.3403	0.82880	45.4571
$\frac{15}{16}$	0.81810	43.2717	0.82357	44.3750	0.82897	45.4922
$\frac{31}{32}$	0.81827	43.3060	0.82374	44.4097	0.82914	45.5274
1	0.81845	43.3403	0.82391	44.4444	0.82930	45.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.82930	45.5625	0.83463	46.6944	0.83990	47.8403
$\frac{1}{32}$	0.82947	45.5977	0.83480	46.7300	0.84006	47.8763
$\frac{1}{16}$	0.82964	45.6328	0.83496	46.7657	0.84022	47.9124
$\frac{3}{32}$	0.82981	45.6680	0.83513	46.8013	0.84039	47.9484
$\frac{1}{8}$	0.82997	45.7032	0.83529	46.8369	0.84055	47.9845
$\frac{5}{32}$	0.83014	45.7385	0.83546	46.8726	0.84071	48.0206
$\frac{3}{16}$	0.83031	45.7737	0.83562	46.9082	0.84088	48.0567
$\frac{7}{32}$	0.83048	45.8089	0.83579	46.9439	0.84104	48.0928
$\frac{1}{4}$	0.83064	45.8442	0.83595	46.9796	0.84120	48.1289
$\frac{9}{32}$	0.83081	45.8795	0.83612	47.0153	0.84137	48.1650
$\frac{5}{16}$	0.83098	45.9147	0.83628	47.0510	0.84153	48.2012
$\frac{11}{32}$	0.83114	45.9500	0.83645	47.0868	0.84169	48.2374
$\frac{3}{8}$	0.83131	45.9854	0.83661	47.1225	0.84185	48.2735
$\frac{13}{32}$	0.83148	46.0207	0.83678	47.1583	0.84202	48.3097
$\frac{7}{16}$	0.83164	46.0560	0.83694	47.1940	0.84218	48.3459
$\frac{15}{32}$	0.83181	46.0914	0.83711	47.2298	0.84234	48.3822
$\frac{1}{2}$	0.83198	46.1267	0.83727	47.2656	0.84251	48.4184
$\frac{17}{32}$	0.83214	46.1621	0.83744	47.3014	0.84267	48.4547
$\frac{9}{16}$	0.83231	46.1975	0.83760	47.3373	0.84283	48.4909
$\frac{19}{32}$	0.83248	46.2329	0.83777	47.3731	0.84299	48.5272
$\frac{5}{8}$	0.83264	46.2683	0.83793	47.4090	0.84315	48.5635
$\frac{21}{32}$	0.83281	46.3038	0.83809	47.4448	0.84332	48.5998
$\frac{11}{16}$	0.83297	46.3392	0.83826	47.4807	0.84348	48.6361
$\frac{23}{32}$	0.83314	46.3747	0.83842	47.5166	0.84364	48.6724
$\frac{3}{4}$	0.83331	46.4102	0.83859	47.5525	0.84380	48.7088
$\frac{25}{32}$	0.83347	46.4456	0.83875	47.5884	0.84397	48.7451
$\frac{13}{16}$	0.83364	46.4811	0.83891	47.6244	0.84413	48.7815
$\frac{27}{32}$	0.83380	46.5167	0.83908	47.6603	0.84429	48.8179
$\frac{7}{8}$	0.83397	46.5522	0.83924	47.6963	0.84445	48.8543
$\frac{29}{32}$	0.83414	46.5877	0.83941	47.7323	0.84461	48.8907
$\frac{15}{16}$	0.83430	46.6233	0.83957	47.7683	0.84477	48.9271
$\frac{31}{32}$	0.83447	46.6589	0.83973	47.8043	0.84494	48.9635
1	0.83463	46.6944	0.83990	47.8403	0.84510	49.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.84510	49.0000	0.85024	50.1736	0.85532	51.3611
$\frac{1}{32}$	0.84526	49.0365	0.85040	50.2105	0.85547	51.3984
$\frac{1}{16}$	0.84542	49.0729	0.85056	50.2474	0.85563	51.4358
$\frac{3}{32}$	0.84558	49.1094	0.85072	50.2843	0.85579	51.4732
$\frac{1}{8}$	0.84574	49.1459	0.85088	50.3213	0.85595	51.5105
$\frac{5}{32}$	0.84591	49.1825	0.85104	50.3582	0.85611	51.5479
$\frac{3}{16}$	0.84607	49.2190	0.85119	50.3952	0.85626	51.5853
$\frac{7}{32}$	0.84623	49.2555	0.85135	50.4322	0.85642	51.6227
$\frac{1}{4}$	0.84639	49.2921	0.85151	50.4692	0.85658	51.6602
$\frac{9}{32}$	0.84655	49.3287	0.85167	50.5062	0.85674	51.6976
$\frac{5}{16}$	0.84671	49.3653	0.85183	50.5432	0.85689	51.7351
$\frac{11}{32}$	0.84687	49.4019	0.85199	50.5802	0.85705	51.7725
$\frac{3}{8}$	0.84703	49.4385	0.85215	50.6173	0.85721	51.8100
$\frac{13}{32}$	0.84719	49.4751	0.85231	50.6544	0.85736	51.8475
$\frac{7}{16}$	0.84735	49.5117	0.85247	50.6914	0.85752	51.8850
$\frac{15}{32}$	0.84751	49.5484	0.85263	50.7285	0.85768	51.9225
$\frac{1}{2}$	0.84768	49.5851	0.85278	50.7656	0.85783	51.9601
$\frac{17}{32}$	0.84784	49.6218	0.85294	50.8027	0.85799	51.9976
$\frac{9}{16}$	0.84800	49.6584	0.85310	50.8399	0.85815	52.0352
$\frac{19}{32}$	0.84816	49.6952	0.85326	50.8770	0.85831	52.0728
$\frac{5}{8}$	0.84832	49.7319	0.85342	50.9142	0.85846	52.1104
$\frac{21}{32}$	0.84848	49.7686	0.85358	50.9513	0.85862	52.1480
$\frac{11}{16}$	0.84864	49.8054	0.85374	50.9885	0.85878	52.1856
$\frac{23}{32}$	0.84880	49.8421	0.85389	51.0257	0.85893	52.2232
$\frac{3}{4}$	0.84896	49.8789	0.85405	51.0629	0.85909	52.2609
$\frac{25}{32}$	0.84912	49.9157	0.85421	51.1002	0.85924	52.2985
$\frac{13}{16}$	0.84928	49.9525	0.85437	51.1374	0.85940	52.3362
$\frac{27}{32}$	0.84944	49.9893	0.85453	51.1746	0.85956	52.3739
$\frac{7}{8}$	0.84960	50.0261	0.85469	51.2119	0.85971	52.4116
$\frac{29}{32}$	0.84976	50.0630	0.85484	51.2492	0.85987	52.4493
$\frac{15}{16}$	0.84992	50.0999	0.85500	51.2865	0.86003	52.4870
$\frac{31}{32}$	0.85008	50.1367	0.85516	51.3238	0.86018	52.5247
1	0.85024	50.1736	0.85532	51.3611	0.86034	52.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.86034	52.5625	0.86530	53.7778	0.87021	55.0069
$\frac{1}{8}$	0.86049	52.6003	0.86546	53.8160	0.87036	55.0456
$\frac{1}{16}$	0.86065	52.6380	0.86561	53.8542	0.87051	55.0842
$\frac{3}{32}$	0.86081	52.6758	0.86576	53.8924	0.87067	55.1229
$\frac{1}{8}$	0.86096	52.7137	0.86592	53.9307	0.87082	55.1616
$\frac{5}{32}$	0.86112	52.7515	0.86607	53.9689	0.87097	55.2003
$\frac{3}{16}$	0.86127	52.7893	0.86623	54.0072	0.87112	55.2390
$\frac{7}{32}$	0.86143	52.8272	0.86638	54.0455	0.87127	55.2777
$\frac{1}{4}$	0.86158	52.8650	0.86653	54.0838	0.87143	55.3164
$\frac{9}{32}$	0.86174	52.9029	0.86669	54.1221	0.87158	55.3552
$\frac{5}{16}$	0.86190	52.9408	0.86684	54.1604	0.87173	55.3939
$\frac{11}{32}$	0.86205	52.9787	0.86699	54.1987	0.87188	55.4327
$\frac{3}{8}$	0.86221	53.0166	0.86715	54.2371	0.87203	55.4715
$\frac{13}{32}$	0.86236	53.0545	0.86730	54.2755	0.87219	55.5103
$\frac{7}{16}$	0.86252	53.0925	0.86746	54.3138	0.87234	55.5491
$\frac{15}{32}$	0.86267	53.1304	0.86761	54.3522	0.87249	55.5879
$\frac{1}{2}$	0.86283	53.1684	0.86776	54.3906	0.87264	55.6267
$\frac{17}{32}$	0.86298	53.2064	0.86792	54.4290	0.87279	55.6656
$\frac{9}{16}$	0.86314	53.2444	0.86807	54.4675	0.87294	55.7045
$\frac{19}{32}$	0.86329	53.2824	0.86822	54.5059	0.87310	55.7433
$\frac{5}{8}$	0.86345	53.3204	0.86838	54.5444	0.87325	55.7822
$\frac{21}{32}$	0.86360	53.3585	0.86853	54.5829	0.87340	55.8211
$\frac{11}{16}$	0.86376	53.3965	0.86868	54.6213	0.87355	55.8601
$\frac{23}{32}$	0.86391	53.4346	0.86883	54.6598	0.87370	55.8990
$\frac{3}{4}$	0.86407	53.4727	0.86899	54.6984	0.87385	55.9379
$\frac{25}{32}$	0.86422	53.5107	0.86914	54.7369	0.87400	55.9769
$\frac{13}{16}$	0.86438	53.5489	0.86929	54.7754	0.87416	56.0159
$\frac{27}{32}$	0.86453	53.5870	0.86945	54.8140	0.87431	56.0549
$\frac{7}{8}$	0.86468	53.6251	0.86960	54.8525	0.87446	56.0939
$\frac{29}{32}$	0.86484	53.6633	0.86975	54.8911	0.87461	56.1329
$\frac{15}{16}$	0.86499	53.7014	0.86990	54.9297	0.87476	56.1719
$\frac{31}{32}$	0.86515	53.7396	0.87006	54.9683	0.87491	56.2109
1	0.86530	53.7778	0.87021	55.0069	0.87506	56.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.87506	56.2500	0.87986	57.5069	0.88461	58.7778
$\frac{1}{32}$	0.87521	56.2891	0.88001	57.5464	0.88475	58.8177
$\frac{1}{16}$	0.87536	56.3282	0.88016	57.5860	0.88490	58.8577
$\frac{3}{32}$	0.87551	56.3672	0.88031	57.6255	0.88505	58.8976
$\frac{1}{8}$	0.87566	56.4064	0.88046	57.6650	0.88520	58.9376
$\frac{5}{32}$	0.87581	56.4455	0.88061	57.7046	0.88534	58.9776
$\frac{3}{16}$	0.87597	56.4846	0.88075	57.7442	0.88549	59.0176
$\frac{7}{32}$	0.87612	56.5238	0.88090	57.7838	0.88564	59.0576
$\frac{1}{4}$	0.87627	56.5629	0.88105	57.8234	0.88579	59.0977
$\frac{9}{32}$	0.87642	56.6021	0.88120	57.8630	0.88593	59.1377
$\frac{5}{16}$	0.87657	56.6413	0.88135	57.9026	0.88608	59.1778
$\frac{11}{32}$	0.87672	56.6805	0.88150	57.9422	0.88623	59.2178
$\frac{3}{8}$	0.87687	56.7197	0.88165	57.9819	0.88637	59.2579
$\frac{13}{32}$	0.87702	56.7590	0.88179	58.0215	0.88652	59.2980
$\frac{7}{16}$	0.87717	56.7982	0.88194	58.0612	0.88667	59.3381
$\frac{15}{32}$	0.87732	56.8375	0.88209	58.1009	0.88681	59.3783
$\frac{1}{2}$	0.87747	56.8767	0.88224	58.1406	0.88696	59.4184
$\frac{17}{32}$	0.87762	56.9160	0.88239	58.1803	0.88711	59.4586
$\frac{9}{16}$	0.87777	56.9553	0.88254	58.2201	0.88725	59.4987
$\frac{19}{32}$	0.87792	56.9946	0.88268	58.2598	0.88740	59.5389
$\frac{5}{8}$	0.87807	57.0340	0.88283	58.2996	0.88755	59.5791
$\frac{21}{32}$	0.87822	57.0733	0.88298	58.3394	0.88769	59.6193
$\frac{11}{16}$	0.87837	57.1127	0.88313	58.3792	0.88784	59.6595
$\frac{23}{32}$	0.87852	57.1520	0.88328	58.4190	0.88799	59.6998
$\frac{3}{4}$	0.87867	57.1914	0.88342	58.4588	0.88813	59.7400
$\frac{25}{32}$	0.87881	57.2308	0.88357	58.4986	0.88828	59.7803
$\frac{13}{16}$	0.87896	57.2702	0.88372	58.5384	0.88843	59.8206
$\frac{27}{32}$	0.87911	57.3096	0.88387	58.5783	0.88857	59.8608
$\frac{7}{8}$	0.87926	57.3491	0.88402	58.6182	0.88872	59.9011
$\frac{29}{32}$	0.87941	57.3885	0.88416	58.6580	0.88886	59.9415
$\frac{15}{16}$	0.87956	57.4280	0.88431	58.6979	0.88901	59.9818
$\frac{31}{32}$	0.87971	57.4675	0.88446	58.7379	0.88916	60.0221
1	0.87986	57.5069	0.88461	58.7778	0.88930	60.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.88930	60.0625	0.89395	61.3611	0.89854	62.6736
$\frac{1}{32}$	0.88945	60.1029	0.89409	61.4019	0.89869	62.7149
$\frac{1}{16}$	0.88959	60.1433	0.89424	61.4427	0.89883	62.7561
$\frac{3}{32}$	0.88974	60.1837	0.89438	61.4836	0.89897	62.7974
$\frac{1}{8}$	0.88989	60.2241	0.89452	61.5244	0.89911	62.8387
$\frac{5}{32}$	0.89003	60.2645	0.89467	61.5653	0.89926	62.8799
$\frac{3}{16}$	0.89018	60.3049	0.89481	61.6061	0.89940	62.9213
$\frac{7}{32}$	0.89032	60.3454	0.89496	61.6470	0.89954	62.9626
$\frac{1}{4}$	0.89047	60.3859	0.89510	61.6879	0.89968	63.0039
$\frac{9}{32}$	0.89061	60.4263	0.89524	61.7288	0.89983	63.0453
$\frac{5}{16}$	0.89076	60.4668	0.89539	61.7698	0.89997	63.0866
$\frac{11}{32}$	0.89090	60.5073	0.89553	61.8107	0.90011	63.1280
$\frac{3}{8}$	0.89105	60.5479	0.89568	61.8517	0.90025	63.1694
$\frac{13}{32}$	0.89119	60.5884	0.89582	61.8926	0.90040	63.2108
$\frac{7}{16}$	0.89134	60.6289	0.89596	61.9336	0.90054	63.2522
$\frac{15}{32}$	0.89149	60.6695	0.89611	61.9746	0.90068	63.2936
$\frac{1}{2}$	0.89163	60.7101	0.89625	62.0156	0.90082	63.3351
$\frac{17}{32}$	0.89178	60.7507	0.89639	62.0566	0.90096	63.3765
$\frac{9}{16}$	0.89192	60.7913	0.89654	62.0977	0.90111	63.4180
$\frac{19}{32}$	0.89207	60.8319	0.89668	62.1387	0.90125	63.4595
$\frac{5}{8}$	0.89221	60.8725	0.89682	62.1798	0.90139	63.5010
$\frac{21}{32}$	0.89236	60.9131	0.89697	62.2209	0.90153	63.5425
$\frac{11}{16}$	0.89250	60.9538	0.89711	62.2620	0.90167	63.5840
$\frac{23}{32}$	0.89265	60.9945	0.89725	62.3031	0.90182	63.6255
$\frac{3}{4}$	0.89279	61.0352	0.89740	62.3442	0.90196	63.6671
$\frac{25}{32}$	0.89293	61.0759	0.89754	62.3853	0.90210	63.7087
$\frac{13}{16}$	0.89308	61.1166	0.89768	62.4265	0.90224	63.7502
$\frac{27}{32}$	0.89322	61.1573	0.89783	62.4676	0.90238	63.7918
$\frac{7}{8}$	0.89337	61.1980	0.89797	62.5088	0.90252	63.8334
$\frac{29}{32}$	0.89351	61.2388	0.89811	62.5500	0.90267	63.8751
$\frac{15}{16}$	0.89366	61.2795	0.89826	62.5912	0.90281	63.9167
$\frac{31}{32}$	0.89380	61.3203	0.89840	62.6324	0.90295	63.9583
1	0.89395	61.3611	0.89854	62.6736	0.90309	64.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.90309	64.0000	0.90759	65.3403	0.91204	66.6944
$\frac{1}{32}$	0.90323	64.0417	0.90773	65.3824	0.91218	66.7370
$\frac{1}{16}$	0.90337	64.0834	0.90787	65.4245	0.91232	66.7795
$\frac{3}{32}$	0.90351	64.1251	0.90801	65.4666	0.91246	66.8221
$\frac{1}{8}$	0.90366	64.1668	0.90815	65.5088	0.91260	66.8647
$\frac{5}{32}$	0.90380	64.2085	0.90829	65.5510	0.91274	66.9073
$\frac{3}{16}$	0.90394	64.2502	0.90843	65.5931	0.91287	66.9499
$\frac{7}{32}$	0.90408	64.2920	0.90857	65.6353	0.91301	66.9925
$\frac{1}{4}$	0.90422	64.3338	0.90871	65.6775	0.91315	67.0352
$\frac{9}{32}$	0.90436	64.3755	0.90885	65.7197	0.91329	67.0778
$\frac{5}{16}$	0.90450	64.4173	0.90899	65.7620	0.91343	67.1205
$\frac{11}{32}$	0.90464	64.4592	0.90913	65.8042	0.91357	67.1631
$\frac{3}{8}$	0.90478	64.5010	0.90927	65.8465	0.91370	67.2058
$\frac{13}{32}$	0.90492	64.5428	0.90941	65.8887	0.91384	67.2485
$\frac{7}{16}$	0.90506	64.5847	0.90954	65.9310	0.91398	67.2913
$\frac{15}{32}$	0.90521	64.6265	0.90968	65.9733	0.91412	67.3340
$\frac{1}{2}$	0.90535	64.6684	0.90982	66.0156	0.91425	67.3767
$\frac{17}{32}$	0.90549	64.7103	0.90996	66.0579	0.91439	67.4195
$\frac{9}{16}$	0.90563	64.7522	0.91010	66.1003	0.91453	67.4623
$\frac{19}{32}$	0.90577	64.7941	0.91024	66.1426	0.91467	67.5051
$\frac{5}{8}$	0.90591	64.8360	0.91038	66.1850	0.91481	67.5479
$\frac{21}{32}$	0.90605	64.8780	0.91052	66.2274	0.91494	67.5907
$\frac{11}{16}$	0.90619	64.9199	0.91066	66.2698	0.91508	67.6335
$\frac{23}{32}$	0.90633	64.9619	0.91080	66.3122	0.91522	67.6763
$\frac{3}{4}$	0.90647	65.0039	0.91094	66.3546	0.91536	67.7192
$\frac{25}{32}$	0.90661	65.0459	0.91107	66.3970	0.91549	67.7621
$\frac{13}{16}$	0.90675	65.0879	0.91121	66.4395	0.91563	67.8049
$\frac{27}{32}$	0.90689	65.1299	0.91135	66.4819	0.91577	67.8478
$\frac{7}{8}$	0.90703	65.1720	0.91149	66.5244	0.91591	67.8907
$\frac{29}{32}$	0.90717	65.2140	0.91163	66.5669	0.91604	67.9337
$\frac{15}{16}$	0.90731	65.2561	0.91177	66.6094	0.91618	67.9766
$\frac{31}{32}$	0.90745	65.2982	0.91191	66.6519	0.91632	68.0195
1	0.90759	65.3403	0.91204	66.6944	0.91645	68.0625

8'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.91645	68.0625	0.92082	69.4444	0.92514	70.8403
$\frac{1}{32}$	0.91659	68.1055	0.92095	69.4879	0.92527	70.8841
$\frac{1}{16}$	0.91673	68.1485	0.92109	69.5313	0.92541	70.9280
$\frac{3}{32}$	0.91687	68.1915	0.92123	69.5747	0.92554	70.9718
$\frac{1}{8}$	0.91700	68.2345	0.92136	69.6182	0.92568	71.0157
$\frac{5}{32}$	0.91714	68.2775	0.92150	69.6616	0.92581	71.0596
$\frac{3}{16}$	0.91728	68.3206	0.92163	69.7051	0.92595	71.1035
$\frac{7}{32}$	0.91741	68.3636	0.92177	69.7486	0.92608	71.1475
$\frac{1}{4}$	0.91755	68.4067	0.92190	69.7921	0.92621	71.1914
$\frac{9}{32}$	0.91769	68.4498	0.92204	69.8356	0.92635	71.2354
$\frac{5}{16}$	0.91782	68.4929	0.92217	69.8792	0.92648	71.2793
$\frac{11}{32}$	0.91796	68.5360	0.92231	69.9227	0.92662	71.3233
$\frac{3}{8}$	0.91810	68.5791	0.92244	69.9663	0.92675	71.3673
$\frac{13}{32}$	0.91823	68.6222	0.92258	70.0098	0.92688	71.4113
$\frac{7}{16}$	0.91837	68.6654	0.92271	70.0534	0.92702	71.4553
$\frac{15}{32}$	0.91851	68.7086	0.92285	70.0970	0.92715	71.4994
$\frac{1}{2}$	0.91864	68.7517	0.92298	70.1406	0.92728	71.5434
$\frac{17}{32}$	0.91878	68.7949	0.92312	70.1843	0.92742	71.5875
$\frac{9}{16}$	0.91891	68.8381	0.92325	70.2279	0.92755	71.6315
$\frac{19}{32}$	0.91905	68.8814	0.92339	70.2715	0.92769	71.6756
$\frac{5}{8}$	0.91919	68.9246	0.92352	70.3152	0.92782	71.7197
$\frac{21}{32}$	0.91932	68.9678	0.92366	70.3589	0.92795	71.7638
$\frac{11}{16}$	0.91946	69.0111	0.92379	70.4026	0.92809	71.8080
$\frac{23}{32}$	0.91960	69.0544	0.92393	70.4463	0.92822	71.8521
$\frac{3}{4}$	0.91973	69.0977	0.92406	70.4900	0.92835	71.8963
$\frac{25}{32}$	0.91987	69.1410	0.92420	70.5338	0.92849	71.9404
$\frac{13}{16}$	0.92000	69.1843	0.92433	70.5775	0.92862	71.9846
$\frac{27}{32}$	0.92014	69.2276	0.92447	70.6213	0.92875	72.0288
$\frac{7}{8}$	0.92028	69.2709	0.92460	70.6650	0.92889	72.0730
$\frac{29}{32}$	0.92041	69.3143	0.92474	70.7088	0.92902	72.1172
$\frac{15}{16}$	0.92055	69.3577	0.92487	70.7526	0.92915	72.1615
$\frac{31}{32}$	0.92068	69.4010	0.92501	70.7964	0.92929	72.2057
1	0.92082	69.4444	0.92514	70.8403	0.92942	72.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.92942	72.2500	0.93366	73.6736	0.93785	75.1111
$\frac{1}{32}$	0.92955	72.2943	0.93379	73.7183	0.93798	75.1563
$\frac{1}{16}$	0.92968	72.3386	0.93392	73.7630	0.93811	75.2014
$\frac{3}{32}$	0.92982	72.3829	0.93405	73.8078	0.93824	75.2466
$\frac{1}{8}$	0.92995	72.4272	0.93418	73.8525	0.93837	75.2918
$\frac{5}{32}$	0.93008	72.4715	0.93431	73.8973	0.93850	75.3370
$\frac{3}{16}$	0.93022	72.5159	0.93445	73.9421	0.93863	75.3822
$\frac{7}{32}$	0.93035	72.5602	0.93458	73.9869	0.93876	75.4274
$\frac{1}{4}$	0.93048	72.6046	0.93471	74.0317	0.93889	75.4727
$\frac{9}{32}$	0.93061	72.6490	0.93484	74.0765	0.93903	75.5179
$\frac{5}{16}$	0.93075	72.6934	0.93497	74.1213	0.93916	75.5632
$\frac{11}{32}$	0.93088	72.7378	0.93510	74.1662	0.93929	75.6085
$\frac{3}{8}$	0.93101	72.7822	0.93523	74.2110	0.93942	75.6538
$\frac{13}{32}$	0.93115	72.8267	0.93537	74.2559	0.93955	75.6991
$\frac{7}{16}$	0.93128	72.8711	0.93550	74.3008	0.93968	75.7444
$\frac{15}{32}$	0.93141	72.9156	0.93563	74.3457	0.93981	75.7897
$\frac{1}{2}$	0.93154	72.9601	0.93576	74.3906	0.93994	75.8351
$\frac{17}{32}$	0.93168	73.0046	0.93589	74.4356	0.94006	75.8804
$\frac{9}{16}$	0.93181	73.0491	0.93602	74.4805	0.94019	75.9258
$\frac{19}{32}$	0.93194	73.0936	0.93615	74.5255	0.94032	75.9712
$\frac{5}{8}$	0.93207	73.1381	0.93628	74.5704	0.94045	76.0166
$\frac{21}{32}$	0.93220	73.1827	0.93641	74.6154	0.94058	76.0620
$\frac{11}{16}$	0.93234	73.2272	0.93655	74.6604	0.94071	76.1074
$\frac{23}{32}$	0.93247	73.2718	0.93668	74.7054	0.94084	76.1529
$\frac{3}{4}$	0.93260	73.3164	0.93681	74.7504	0.94097	76.1984
$\frac{25}{32}$	0.93273	73.3610	0.93694	74.7955	0.94110	76.2438
$\frac{13}{16}$	0.93286	73.4056	0.93707	74.8405	0.94123	76.2893
$\frac{27}{32}$	0.93300	73.4503	0.93720	74.8856	0.94136	76.3348
$\frac{7}{8}$	0.93313	73.4949	0.93733	74.9307	0.94149	76.3803
$\frac{29}{32}$	0.93326	73.5396	0.93746	74.9758	0.94162	76.4258
$\frac{15}{16}$	0.93339	73.5842	0.93759	75.0209	0.94175	76.4714
$\frac{31}{32}$	0.93352	73.6289	0.93772	75.0660	0.94188	76.5169
1	0.93366	73.6736	0.93785	75.1111	0.94201	76.5625

8'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.94201	76.5625	0.94612	78.0278	0.95020	79.5069
$\frac{1}{32}$	0.94214	76.6081	0.94625	78.0738	0.95033	79.5534
$\frac{1}{16}$	0.94227	76.6537	0.94638	78.1198	0.95046	79.5999
$\frac{3}{32}$	0.94240	76.6993	0.94651	78.1659	0.95058	79.6463
$\frac{1}{8}$	0.94252	76.7449	0.94664	78.2119	0.95071	79.6928
$\frac{5}{32}$	0.94265	76.7905	0.94676	78.2580	0.95084	79.7393
$\frac{3}{16}$	0.94278	76.8362	0.94689	78.3041	0.95096	79.7858
$\frac{7}{32}$	0.94291	76.8818	0.94702	78.3502	0.95109	79.8324
$\frac{1}{4}$	0.94304	76.9275	0.94715	78.3963	0.95122	79.8789
$\frac{9}{32}$	0.94317	76.9732	0.94728	78.4424	0.95134	79.9255
$\frac{5}{16}$	0.94330	77.0189	0.94740	78.4885	0.95147	79.9720
$\frac{11}{32}$	0.94343	77.0646	0.94753	78.5347	0.95160	80.0186
$\frac{3}{8}$	0.94356	77.1104	0.94766	78.5808	0.95172	80.0652
$\frac{13}{32}$	0.94369	77.1561	0.94779	78.6270	0.95185	80.1118
$\frac{7}{16}$	0.94381	77.2018	0.94791	78.6732	0.95197	80.1584
$\frac{15}{32}$	0.94394	77.2476	0.94804	78.7194	0.95210	80.2051
$\frac{1}{2}$	0.94407	77.2934	0.94817	78.7656	0.95223	80.2517
$\frac{17}{32}$	0.94420	77.3392	0.94830	78.8119	0.95235	80.2984
$\frac{9}{16}$	0.94433	77.3850	0.94842	78.8581	0.95248	80.3451
$\frac{19}{32}$	0.94446	77.4308	0.94855	78.9044	0.95261	80.3918
$\frac{5}{8}$	0.94459	77.4767	0.94868	78.9506	0.95273	80.4385
$\frac{21}{32}$	0.94471	77.5225	0.94881	78.9969	0.95286	80.4852
$\frac{11}{16}$	0.94484	77.5684	0.94893	79.0432	0.95298	80.5319
$\frac{23}{32}$	0.94497	77.6143	0.94906	79.0895	0.95311	80.5787
$\frac{3}{4}$	0.94510	77.6602	0.94919	79.1359	0.95324	80.6254
$\frac{25}{32}$	0.94523	77.7061	0.94931	79.1822	0.95336	80.6722
$\frac{13}{16}$	0.94536	77.7520	0.94944	79.2285	0.95349	80.7190
$\frac{27}{32}$	0.94548	77.7979	0.94957	79.2749	0.95361	80.7658
$\frac{7}{8}$	0.94561	77.8439	0.94969	79.3213	0.95374	80.8126
$\frac{29}{32}$	0.94574	77.8898	0.94982	79.3677	0.95387	80.8594
$\frac{15}{16}$	0.94587	77.9358	0.94995	79.4141	0.95399	80.9063
$\frac{31}{32}$	0.94600	77.9818	0.95008	79.4605	0.95412	80.9531
1	0.94612	78.0278	0.95020	79.5069	0.95424	81.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.95424	81.0000	0.95825	82.5069	0.96221	84.0278
$\frac{1}{32}$	0.95437	81.0469	0.95837	82.5543	0.96233	84.0755
$\frac{1}{16}$	0.95449	81.0938	0.95849	82.6016	0.96246	84.1233
$\frac{3}{32}$	0.95462	81.1407	0.95862	82.6489	0.96258	84.1711
$\frac{1}{8}$	0.95474	81.1876	0.95874	82.6963	0.96270	84.2189
$\frac{5}{32}$	0.95487	81.2345	0.95887	82.7437	0.96283	84.2667
$\frac{3}{16}$	0.95500	81.2815	0.95899	82.7910	0.96295	84.3145
$\frac{7}{32}$	0.95512	81.3285	0.95912	82.8384	0.96307	84.3623
$\frac{1}{4}$	0.95525	81.3754	0.95924	82.8859	0.96320	84.4102
$\frac{9}{32}$	0.95537	81.4224	0.95936	82.9333	0.96332	84.4580
$\frac{5}{16}$	0.95550	81.4694	0.95949	82.9807	0.96344	84.5059
$\frac{11}{32}$	0.95562	81.5164	0.95961	83.0282	0.96357	84.5538
$\frac{3}{8}$	0.95575	81.5635	0.95974	83.0756	0.96369	84.6017
$\frac{13}{32}$	0.95587	81.6105	0.95986	83.1231	0.96381	84.6496
$\frac{7}{16}$	0.95600	81.6576	0.95998	83.1706	0.96394	84.6975
$\frac{15}{32}$	0.95612	81.7047	0.96011	83.2181	0.96406	84.7454
$\frac{1}{2}$	0.95625	81.7517	0.96023	83.2656	0.96418	84.7934
$\frac{17}{32}$	0.95637	81.7988	0.96036	83.3132	0.96430	84.8414
$\frac{9}{16}$	0.95650	81.8459	0.96048	83.3607	0.96443	84.8894
$\frac{19}{32}$	0.95662	81.8931	0.96060	83.4083	0.96455	84.9373
$\frac{5}{8}$	0.95675	81.9402	0.96073	83.4558	0.96467	84.9854
$\frac{21}{32}$	0.95687	81.9874	0.96085	83.5034	0.96479	85.0334
$\frac{11}{16}$	0.95700	82.0345	0.96098	83.5510	0.96492	85.0814
$\frac{23}{32}$	0.95712	82.0817	0.96110	83.5986	0.96504	85.1295
$\frac{3}{4}$	0.95725	82.1289	0.96122	83.6463	0.96516	85.1775
$\frac{25}{32}$	0.95737	82.1761	0.96135	83.6939	0.96529	85.2256
$\frac{13}{16}$	0.95750	82.2233	0.96147	83.7416	0.96541	85.2737
$\frac{27}{32}$	0.95762	82.2706	0.96159	83.7892	0.96553	85.3218
$\frac{7}{8}$	0.95775	82.3178	0.96172	83.8369	0.96565	85.3699
$\frac{29}{32}$	0.95787	82.3651	0.96184	83.8846	0.96577	85.4180
$\frac{15}{16}$	0.95800	82.4124	0.96196	83.9323	0.96590	85.4662
$\frac{31}{32}$	0.95812	82.4596	0.96209	83.9800	0.96602	85.5143
1	0.95825	82.5069	0.96221	84.0278	0.96614	85.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.96614	85.5625	0.97004	87.1111	0.97390	88.6736
$\frac{1}{32}$	0.96626	85.6107	0.97016	87.1597	0.97402	88.7227
$\frac{1}{16}$	0.96639	85.6589	0.97028	87.2084	0.97414	88.7717
$\frac{3}{32}$	0.96651	85.7071	0.97040	87.2570	0.97426	88.8208
$\frac{1}{8}$	0.96663	85.7553	0.97052	87.3057	0.97438	88.8699
$\frac{5}{32}$	0.96675	85.8036	0.97064	87.3543	0.97450	88.9190
$\frac{3}{16}$	0.96687	85.8518	0.97076	87.4030	0.97462	88.9681
$\frac{7}{32}$	0.96700	85.9001	0.97088	87.4517	0.97474	89.0173
$\frac{1}{4}$	0.96712	85.9484	0.97101	87.5004	0.97486	89.0664
$\frac{9}{32}$	0.96724	85.9966	0.97113	87.5492	0.97498	89.1156
$\frac{5}{16}$	0.96736	86.0449	0.97125	87.5979	0.97510	89.1647
$\frac{11}{32}$	0.96748	86.0933	0.97137	87.6467	0.97522	89.2139
$\frac{3}{8}$	0.96761	86.1416	0.97149	87.6954	0.97534	89.2631
$\frac{13}{32}$	0.96773	86.1899	0.97161	87.7442	0.97546	89.3123
$\frac{7}{16}$	0.96785	86.2383	0.97173	87.7930	0.97558	89.3616
$\frac{15}{32}$	0.96797	86.2867	0.97185	87.8418	0.97570	89.4108
$\frac{1}{2}$	0.96809	86.3351	0.97197	87.8906	0.97581	89.4601
$\frac{17}{32}$	0.96822	86.3835	0.97209	87.9395	0.97593	89.5093
$\frac{9}{16}$	0.96834	86.4319	0.97221	87.9883	0.97605	89.5586
$\frac{19}{32}$	0.96846	86.4803	0.97233	88.0372	0.97617	89.6079
$\frac{5}{8}$	0.96858	86.5288	0.97245	88.0860	0.97629	89.6572
$\frac{21}{32}$	0.96870	86.5772	0.97257	88.1349	0.97641	89.7065
$\frac{11}{16}$	0.96882	86.6257	0.97269	88.1838	0.97653	89.7559
$\frac{23}{32}$	0.96894	86.6742	0.97281	88.2328	0.97665	89.8052
$\frac{3}{4}$	0.96907	86.7227	0.97294	88.2817	0.97677	89.8546
$\frac{25}{32}$	0.96919	86.7712	0.97306	88.3306	0.97689	89.9040
$\frac{13}{16}$	0.96931	86.8197	0.97318	88.3796	0.97701	89.9534
$\frac{27}{32}$	0.96943	86.8682	0.97330	88.4286	0.97713	90.0028
$\frac{7}{8}$	0.96955	86.9168	0.97342	88.4775	0.97725	90.0522
$\frac{29}{32}$	0.96967	86.9653	0.97354	88.5265	0.97737	90.1016
$\frac{15}{16}$	0.96979	87.0139	0.97366	88.5755	0.97749	90.1511
$\frac{31}{32}$	0.96992	87.0625	0.97378	88.6246	0.97760	90.2005
1	0.97004	87.1111	0.97390	88.6736	0.97772	90.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.97772	90.2500	0.98152	91.8403	0.98528	93.4444
$\frac{1}{32}$	0.97784	90.2995	0.98163	91.8902	0.98539	93.4948
$\frac{1}{16}$	0.97796	90.3490	0.98175	91.9401	0.98551	93.5452
$\frac{3}{32}$	0.97808	90.3985	0.98187	91.9901	0.98563	93.5955
$\frac{1}{8}$	0.97820	90.4480	0.98199	92.0400	0.98574	93.6459
$\frac{5}{32}$	0.97832	90.4976	0.98211	92.0900	0.98586	93.6963
$\frac{3}{16}$	0.97844	90.5471	0.98222	92.1400	0.98598	93.7468
$\frac{7}{32}$	0.97856	90.5967	0.98234	92.1900	0.98609	93.7972
$\frac{1}{4}$	0.97867	90.6463	0.98246	92.2400	0.98621	93.8477
$\frac{9}{32}$	0.97879	90.6959	0.98258	92.2900	0.98633	93.8981
$\frac{5}{16}$	0.97891	90.7455	0.98270	92.3401	0.98645	93.9486
$\frac{11}{32}$	0.97903	90.7951	0.98281	92.3901	0.98656	93.9991
$\frac{3}{8}$	0.97915	90.8447	0.98293	92.4402	0.98668	94.0496
$\frac{13}{32}$	0.97927	90.8944	0.98305	92.4903	0.98680	94.1001
$\frac{7}{16}$	0.97939	90.9440	0.98317	92.5404	0.98691	94.1506
$\frac{15}{32}$	0.97951	90.9937	0.98328	92.5905	0.98703	94.2012
$\frac{1}{2}$	0.97962	91.0434	0.98340	92.6406	0.98714	94.2517
$\frac{17}{32}$	0.97974	91.0931	0.98352	92.6908	0.98726	94.3023
$\frac{9}{16}$	0.97986	91.1428	0.98364	92.7409	0.98738	94.3529
$\frac{19}{32}$	0.97998	91.1926	0.98375	92.7911	0.98749	94.4035
$\frac{5}{8}$	0.98010	91.2423	0.98387	92.8413	0.98761	94.4541
$\frac{21}{32}$	0.98022	91.2921	0.98399	92.8914	0.98773	94.5047
$\frac{11}{16}$	0.98033	91.3418	0.98411	92.9417	0.98784	94.5554
$\frac{23}{32}$	0.98045	91.3916	0.98422	92.9919	0.98796	94.6060
$\frac{3}{4}$	0.98057	91.4414	0.98434	93.0421	0.98808	94.6567
$\frac{25}{32}$	0.98069	91.4912	0.98446	93.0923	0.98819	94.7074
$\frac{13}{16}$	0.98081	91.5410	0.98457	93.1426	0.98831	94.7581
$\frac{27}{32}$	0.98093	91.5909	0.98469	93.1929	0.98842	94.8088
$\frac{7}{8}$	0.98104	91.6407	0.98481	93.2432	0.98854	94.8595
$\frac{29}{32}$	0.98116	91.6906	0.98493	93.2935	0.98866	94.9102
$\frac{15}{16}$	0.98128	91.7405	0.98504	93.3438	0.98877	94.9610
$\frac{31}{32}$	0.98140	91.7904	0.98516	93.3941	0.98889	95.0117
1	0.98152	91.8403	0.98528	93.4444	0.98900	95.0625

9'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.98900	95.0625	0.99270	96.6944	0.99637	98.3403
1/32	0.98912	95.1133	0.99282	96.7457	0.99648	98.3919
1/16	0.98924	95.1641	0.99293	96.7969	0.99659	98.4436
3/32	0.98935	95.2149	0.99305	96.8482	0.99671	98.4953
1/8	0.98947	95.2657	0.99316	96.8994	0.99682	98.5470
5/32	0.98958	95.3166	0.99328	96.9507	0.99694	98.5987
3/16	0.98970	95.3674	0.99339	97.0020	0.99705	98.6504
7/32	0.98982	95.4183	0.99351	97.0533	0.99716	98.7022
1/4	0.98993	95.4692	0.99362	97.1046	0.99728	98.7539
9/32	0.99005	95.5201	0.99373	97.1559	0.99739	98.8057
5/16	0.99016	95.5710	0.99385	97.2073	0.99750	98.8574
11/32	0.99028	95.6219	0.99396	97.2586	0.99762	98.9092
3/8	0.99039	95.6729	0.99408	97.3100	0.99773	98.9610
13/32	0.99051	95.7238	0.99419	97.3614	0.99785	99.0129
7/16	0.99063	95.7748	0.99431	97.4128	0.99796	99.0647
15/32	0.99074	95.8257	0.99442	97.4642	0.99807	99.1165
1/2	0.99086	95.8767	0.99454	97.5156	0.99819	99.1684
17/32	0.99097	95.9277	0.99465	97.5671	0.99830	99.2203
9/16	0.99109	95.9788	0.99477	97.6185	0.99841	99.2722
19/32	0.99120	96.0298	0.99488	97.6700	0.99853	99.3241
5/8	0.99132	96.0808	0.99499	97.7215	0.99864	99.3760
21/32	0.99143	96.1319	0.99511	97.7730	0.99875	99.4279
11/16	0.99155	96.1830	0.99522	97.8245	0.99887	99.4798
23/32	0.99166	96.2341	0.99534	97.8760	0.99898	99.5318
3/4	0.99178	96.2852	0.99545	97.9275	0.99909	99.5838
25/32	0.99189	96.3363	0.99557	97.9791	0.99921	99.6357
13/16	0.99201	96.3874	0.99568	98.0306	0.99932	99.6877
27/32	0.99213	96.4385	0.99580	98.0822	0.99943	99.7398
7/8	0.99224	96.4897	0.99591	98.1338	0.99955	99.7918
29/32	0.99236	96.5409	0.99602	98.1854	0.99966	99.8438
15/16	0.99247	96.5920	0.99614	98.2370	0.99977	99.8959
31/32	0.99259	96.6432	0.99625	98.2886	0.99989	99.9479
1	0.99270	96.6944	0.99637	98.3403	1.00000	100.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.00000	100.0000	1.00360	101.6736	1.00718	103.3611
$\frac{1}{32}$	1.00011	100.0521	1.00372	101.7261	1.00729	103.4141
$\frac{1}{16}$	1.00023	100.1042	1.00383	101.7787	1.00740	103.4670
$\frac{3}{32}$	1.00034	100.1563	1.00394	101.8312	1.00751	103.5200
$\frac{1}{8}$	1.00045	100.2084	1.00405	101.8838	1.00762	103.5730
$\frac{5}{32}$	1.00057	100.2606	1.00416	101.9364	1.00773	103.6260
$\frac{3}{16}$	1.00068	100.3127	1.00428	101.9890	1.00785	103.6791
$\frac{7}{32}$	1.00079	100.3649	1.00439	102.0416	1.00796	103.7321
$\frac{1}{4}$	1.00090	100.4171	1.00450	102.0942	1.00807	103.7852
$\frac{9}{32}$	1.00102	100.4693	1.00461	102.1468	1.00818	103.8382
$\frac{5}{16}$	1.00113	100.5215	1.00472	102.1995	1.00829	103.8913
$1\frac{1}{32}$	1.00124	100.5737	1.00484	102.2521	1.00840	103.9444
$\frac{3}{8}$	1.00136	100.6260	1.00495	102.3048	1.00851	103.9975
$1\frac{3}{32}$	1.00147	100.6782	1.00506	102.3575	1.00862	104.0506
$\frac{7}{16}$	1.00158	100.7305	1.00517	102.4102	1.00873	104.1038
$1\frac{5}{32}$	1.00169	100.7828	1.00528	102.4629	1.00884	104.1569
$\frac{1}{2}$	1.00181	100.8351	1.00540	102.5156	1.00895	104.2101
$1\frac{7}{32}$	1.00192	100.8874	1.00551	102.5684	1.00907	104.2632
$\frac{9}{16}$	1.00203	100.9397	1.00562	102.6211	1.00918	104.3164
$1\frac{9}{32}$	1.00214	100.9920	1.00573	102.6739	1.00929	104.3696
$\frac{5}{8}$	1.00226	101.0444	1.00584	102.7267	1.00940	104.4229
$2\frac{1}{32}$	1.00237	101.0967	1.00595	102.7795	1.00951	104.4761
$1\frac{11}{16}$	1.00248	101.1491	1.00606	102.8323	1.00962	104.5293
$2\frac{3}{32}$	1.00259	101.2015	1.00618	102.8851	1.00973	104.5826
$\frac{3}{4}$	1.00271	101.2539	1.00629	102.9379	1.00984	104.6359
$2\frac{5}{32}$	1.00282	101.3063	1.00640	102.9908	1.00995	104.6891
$1\frac{13}{16}$	1.00293	101.3588	1.00651	103.0436	1.01006	104.7424
$2\frac{7}{32}$	1.00304	101.4112	1.00662	103.0965	1.01017	104.7957
$\frac{7}{8}$	1.00316	101.4636	1.00673	103.1494	1.01028	104.8491
$2\frac{9}{32}$	1.00327	101.5161	1.00684	103.2023	1.01039	104.9024
$1\frac{15}{16}$	1.00338	101.5686	1.00696	103.2552	1.01050	104.9558
$3\frac{1}{32}$	1.00349	101.6211	1.00707	103.3082	1.01061	105.0091
1	1.00360	101.6736	1.00718	103.3611	1.01072	105.0625

10'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.01072	105.0625	1.01424	106.7778	1.01773	108.5069
$\frac{1}{32}$	1.01083	105.1159	1.01435	106.8316	1.01784	108.5612
$\frac{1}{16}$	1.01094	105.1693	1.01446	106.8854	1.01795	108.6155
$\frac{3}{32}$	1.01105	105.2227	1.01457	106.9393	1.01805	108.6698
$\frac{1}{8}$	1.01116	105.2762	1.01468	106.9932	1.01816	108.7241
$\frac{5}{32}$	1.01128	105.3296	1.01479	107.0470	1.01827	108.7784
$\frac{3}{16}$	1.01139	105.3831	1.01490	107.1009	1.01838	108.8327
$\frac{7}{32}$	1.01150	105.4365	1.01501	107.1548	1.01849	108.8871
$\frac{1}{4}$	1.01161	105.4900	1.01512	107.2088	1.01860	108.9414
$\frac{9}{32}$	1.01172	105.5435	1.01522	107.2627	1.01870	108.9958
$\frac{5}{16}$	1.01183	105.5970	1.01533	107.3167	1.01881	109.0502
$\frac{11}{32}$	1.01194	105.6506	1.01544	107.3706	1.01892	109.1046
$\frac{3}{8}$	1.01205	105.7041	1.01555	107.4246	1.01903	109.1590
$\frac{13}{32}$	1.01216	105.7577	1.01566	107.4786	1.01914	109.2134
$\frac{7}{16}$	1.01227	105.8112	1.01577	107.5326	1.01925	109.2678
$\frac{15}{32}$	1.01238	105.8648	1.01588	107.5866	1.01935	109.3223
$\frac{1}{2}$	1.01249	105.9184	1.01599	107.6406	1.01946	109.3767
$\frac{17}{32}$	1.01260	105.9720	1.01610	107.6947	1.01957	109.4312
$\frac{9}{16}$	1.01271	106.0256	1.01621	107.7487	1.01968	109.4857
$\frac{19}{32}$	1.01282	106.0793	1.01632	107.8028	1.01979	109.5402
$\frac{5}{8}$	1.01293	106.1329	1.01642	107.8569	1.01989	109.5947
$\frac{21}{32}$	1.01303	106.1866	1.01653	107.9110	1.02000	109.6493
$\frac{11}{16}$	1.01314	106.2403	1.01664	107.9651	1.02011	109.7038
$\frac{23}{32}$	1.01325	106.2940	1.01675	108.0192	1.02022	109.7584
$\frac{3}{4}$	1.01336	106.3477	1.01686	108.0734	1.02033	109.8129
$\frac{25}{32}$	1.01347	106.4014	1.01697	108.1275	1.02043	109.8675
$\frac{13}{16}$	1.01358	106.4551	1.01708	108.1817	1.02054	109.9221
$\frac{27}{32}$	1.01369	106.5088	1.01719	108.2358	1.02065	109.9767
$\frac{7}{8}$	1.01380	106.5626	1.01729	108.2900	1.02076	110.0314
$\frac{29}{32}$	1.01391	106.6164	1.01740	108.3442	1.02087	110.0860
$\frac{15}{16}$	1.01402	106.6702	1.01751	108.3985	1.02097	110.1407
$\frac{31}{32}$	1.01413	106.7240	1.01762	108.4527	1.02108	110.1953
1	1.01424	106.7778	1.01773	108.5069	1.02119	110.2500

10'

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.02119	110.2500	1.02462	112.0069	1.02803	113.7778
$\frac{1}{32}$	1.02130	110.3047	1.02473	112.0621	1.02813	113.8333
$\frac{1}{16}$	1.02140	110.3594	1.02484	112.1172	1.02824	113.8889
$\frac{3}{32}$	1.02151	110.4141	1.02494	112.1724	1.02835	113.9445
$\frac{1}{8}$	1.02162	110.4689	1.02505	112.2275	1.02845	114.0001
$\frac{5}{32}$	1.02173	110.5236	1.02516	112.2827	1.02856	114.0557
$\frac{3}{16}$	1.02184	110.5784	1.02526	112.3379	1.02866	114.1114
$\frac{7}{32}$	1.02194	110.6331	1.02537	112.3931	1.02877	114.1670
$\frac{1}{4}$	1.02205	110.6879	1.02548	112.4484	1.02888	114.2227
$\frac{9}{32}$	1.02216	110.7427	1.02558	112.5036	1.02898	114.2783
$\frac{5}{16}$	1.02227	110.7976	1.02569	112.5588	1.02909	114.3340
$\frac{11}{32}$	1.02237	110.8524	1.02580	112.6141	1.02919	114.3897
$\frac{3}{8}$	1.02248	110.9072	1.02590	112.6694	1.02930	114.4454
$\frac{13}{32}$	1.02259	110.9621	1.02601	112.7247	1.02940	114.5011
$\frac{7}{16}$	1.02269	111.0170	1.02612	112.7800	1.02951	114.5569
$\frac{15}{32}$	1.02280	111.0718	1.02622	112.8353	1.02962	114.6126
$\frac{1}{2}$	1.02291	111.1267	1.02633	112.8906	1.02972	114.6684
$\frac{17}{32}$	1.02302	111.1816	1.02644	112.9460	1.02983	114.7242
$\frac{9}{16}$	1.02312	111.2366	1.02654	113.0013	1.02993	114.7800
$\frac{19}{32}$	1.02323	111.2915	1.02665	113.0567	1.03004	114.8358
$\frac{5}{8}$	1.02334	111.3465	1.02675	113.1121	1.03014	114.8916
$\frac{21}{32}$	1.02345	111.4014	1.02686	113.1675	1.03025	114.9474
$\frac{11}{16}$	1.02355	111.4564	1.02697	113.2229	1.03036	115.0033
$\frac{23}{32}$	1.02366	111.5114	1.02707	113.2783	1.03046	115.0591
$\frac{3}{4}$	1.02377	111.5664	1.02718	113.3338	1.03057	115.1150
$\frac{25}{32}$	1.02387	111.6214	1.02729	113.3892	1.03067	115.1709
$\frac{13}{16}$	1.02398	111.6765	1.02739	113.4447	1.03078	115.2268
$\frac{27}{32}$	1.02409	111.7315	1.02750	113.5002	1.03088	115.2827
$\frac{7}{8}$	1.02419	111.7866	1.02760	113.5557	1.03099	115.3386
$\frac{29}{32}$	1.02430	111.8416	1.02771	113.6112	1.03109	115.3946
$\frac{15}{16}$	1.02441	111.8967	1.02782	113.6667	1.03120	115.4505
$\frac{31}{32}$	1.02452	111.9518	1.02792	113.7222	1.03130	115.5065
1	1.02462	112.0069	1.02803	113.7778	1.03141	115.5625

10'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.03141	115.5625	1.03476	117.3611	1.03809	119.1736
$\frac{1}{32}$	1.03151	115.6185	1.03487	117.4175	1.03819	119.2305
$\frac{1}{16}$	1.03162	115.6745	1.03497	117.4740	1.03830	119.2874
$\frac{3}{32}$	1.03172	115.7305	1.03508	117.5304	1.03840	119.3442
$\frac{1}{8}$	1.03183	115.7866	1.03518	117.5869	1.03850	119.4012
$\frac{5}{32}$	1.03193	115.8426	1.03528	117.6434	1.03861	119.4581
$\frac{3}{16}$	1.03204	115.8987	1.03539	117.6999	1.03871	119.5150
$\frac{7}{32}$	1.03214	115.9548	1.03549	117.7564	1.03881	119.5719
$\frac{1}{4}$	1.03225	116.0109	1.03560	117.8129	1.03892	119.6289
$\frac{9}{32}$	1.03235	116.0670	1.03570	117.8695	1.03902	119.6859
$\frac{5}{16}$	1.03246	116.1231	1.03580	117.9260	1.03912	119.7429
$1\frac{1}{32}$	1.03256	116.1792	1.03591	117.9826	1.03923	119.7999
$\frac{3}{8}$	1.03267	116.2354	1.03601	118.0392	1.03933	119.8569
$1\frac{1}{8}$	1.03277	116.2915	1.03612	118.0958	1.03943	119.9139
$\frac{7}{16}$	1.03288	116.3477	1.03622	118.1524	1.03954	119.9709
$1\frac{5}{32}$	1.03298	116.4039	1.03633	118.2090	1.03964	120.0280
$\frac{1}{2}$	1.03309	116.4601	1.03643	118.2656	1.03974	120.0851
$1\frac{7}{32}$	1.03319	116.5163	1.03653	118.3223	1.03985	120.1422
$\frac{9}{16}$	1.03330	116.5725	1.03664	118.3789	1.03995	120.1992
$1\frac{9}{32}$	1.03340	116.6288	1.03674	118.4356	1.04005	120.2564
$\frac{5}{8}$	1.03351	116.6850	1.03685	118.4923	1.04016	120.3135
$2\frac{1}{32}$	1.03361	116.7413	1.03695	118.5490	1.04026	120.3706
$1\frac{11}{16}$	1.03372	116.7976	1.03705	118.6057	1.04036	120.4278
$2\frac{3}{32}$	1.03382	116.8538	1.03716	118.6624	1.04047	120.4849
$\frac{3}{4}$	1.03393	116.9102	1.03726	118.7192	1.04057	120.5421
$2\frac{5}{32}$	1.03403	116.9665	1.03736	118.7759	1.04067	120.5993
$1\frac{13}{16}$	1.03414	117.0228	1.03747	118.8327	1.04078	120.6565
$2\frac{7}{32}$	1.03424	117.0792	1.03757	118.8895	1.04088	120.7137
$\frac{7}{8}$	1.03434	117.1355	1.03768	118.9463	1.04098	120.7709
$2\frac{9}{32}$	1.03445	117.1919	1.03778	119.0031	1.04108	120.8282
$1\frac{15}{16}$	1.03455	117.2483	1.03788	119.0599	1.04119	120.8854
$3\frac{1}{32}$	1.03466	117.3047	1.03799	119.1168	1.04129	120.9427
1	1.03476	117.3611	1.03809	119.1736	1.04139	121.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.04139	121.0000	1.04467	122.8403	1.04792	124.6944
$\frac{1}{32}$	1.04150	121.0573	1.04477	122.8980	1.04802	124.7526
$\frac{1}{16}$	1.04160	121.1146	1.04487	122.9558	1.04813	124.8108
$\frac{3}{32}$	1.04170	121.1719	1.04498	123.0135	1.04823	124.8690
$\frac{1}{8}$	1.04180	121.2293	1.04508	123.0713	1.04833	124.9272
$\frac{5}{32}$	1.04191	121.2866	1.04518	123.1291	1.04843	124.9854
$\frac{3}{16}$	1.04201	121.3440	1.04528	123.1869	1.04853	125.0436
$\frac{7}{32}$	1.04211	121.4014	1.04538	123.2447	1.04863	125.1019
$\frac{1}{4}$	1.04221	121.4588	1.04549	123.3025	1.04873	125.1602
$\frac{9}{32}$	1.04232	121.5162	1.04559	123.3604	1.04883	125.2184
$\frac{5}{16}$	1.04242	121.5736	1.04569	123.4182	1.04894	125.2767
$\frac{11}{32}$	1.04252	121.6310	1.04579	123.4761	1.04904	125.3350
$\frac{3}{8}$	1.04262	121.6885	1.04589	123.5340	1.04914	125.3933
$\frac{13}{32}$	1.04273	121.7459	1.04599	123.5919	1.04924	125.4517
$\frac{7}{16}$	1.04283	121.8034	1.04610	123.6498	1.04934	125.5100
$\frac{15}{32}$	1.04293	121.8609	1.04620	123.7077	1.04944	125.5684
$\frac{1}{2}$	1.04303	121.9184	1.04630	123.7656	1.04954	125.6267
$\frac{17}{32}$	1.04314	121.9759	1.04640	123.8236	1.04964	125.6851
$\frac{9}{16}$	1.04324	122.0334	1.04650	123.8815	1.04974	125.7435
$\frac{19}{32}$	1.04334	122.0910	1.04660	123.9395	1.04984	125.8019
$\frac{5}{8}$	1.04344	122.1485	1.04671	123.9975	1.04994	125.8604
$\frac{21}{32}$	1.04355	122.2061	1.04681	124.0555	1.05005	125.9188
$\frac{11}{16}$	1.04365	122.2637	1.04691	124.1135	1.05015	125.9772
$\frac{23}{32}$	1.04375	122.3213	1.04701	124.1716	1.05025	126.0357
$\frac{3}{4}$	1.04385	122.3789	1.04711	124.2296	1.05035	126.0942
$\frac{25}{32}$	1.04396	122.4365	1.04721	124.2877	1.05045	126.1527
$\frac{13}{16}$	1.04406	122.4942	1.04732	124.3457	1.05055	126.2112
$\frac{27}{32}$	1.04416	122.5518	1.04742	124.4038	1.05065	126.2697
$\frac{7}{8}$	1.04426	122.6095	1.04752	124.4619	1.05075	126.3282
$\frac{29}{32}$	1.04436	122.6672	1.04762	124.5200	1.05085	126.3868
$\frac{15}{16}$	1.04447	122.7249	1.04772	124.5782	1.05095	126.4453
$\frac{31}{32}$	1.04457	122.7826	1.04782	124.6363	1.05105	126.5039
1	1.04467	122.8403	1.04792	124.6944	1.05115	126.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.05115	126.5625	1.05436	128.4444	1.05754	130.3403
$\frac{1}{32}$	1.05125	126.6211	1.05446	128.5035	1.05764	130.3997
$\frac{1}{16}$	1.05135	126.6797	1.05456	128.5625	1.05774	130.4592
$\frac{3}{32}$	1.05145	126.7383	1.05466	128.6216	1.05784	130.5187
$\frac{1}{8}$	1.05155	126.7970	1.05476	128.6807	1.05794	130.5782
$\frac{5}{32}$	1.05165	126.8556	1.05486	128.7398	1.05803	130.6378
$\frac{3}{16}$	1.05176	126.9143	1.05496	128.7989	1.05813	130.6973
$\frac{7}{32}$	1.05186	126.9730	1.05506	128.8580	1.05823	130.7568
$\frac{1}{4}$	1.05196	127.0317	1.05516	128.9171	1.05833	130.8164
$\frac{9}{32}$	1.05206	127.0904	1.05525	128.9762	1.05843	130.8760
$\frac{5}{16}$	1.05216	127.1491	1.05535	129.0354	1.05853	130.9356
$1\frac{1}{32}$	1.05226	127.2079	1.05545	129.0946	1.05863	130.9952
$\frac{3}{8}$	1.05236	127.2666	1.05555	129.1538	1.05873	131.0548
$1\frac{3}{32}$	1.05246	127.3254	1.05565	129.2130	1.05883	131.1144
$\frac{7}{16}$	1.05256	127.3841	1.05575	129.2722	1.05892	131.1741
$1\frac{5}{32}$	1.05266	127.4429	1.05585	129.3314	1.05902	131.2337
$\frac{1}{2}$	1.05276	127.5017	1.05595	129.3906	1.05912	131.2934
$1\frac{7}{32}$	1.05286	127.5606	1.05605	129.4499	1.05922	131.3531
$\frac{9}{16}$	1.05296	127.6194	1.05615	129.5091	1.05932	131.4128
$1\frac{9}{32}$	1.05306	127.6782	1.05625	129.5684	1.05942	131.4725
$\frac{5}{8}$	1.05316	127.7371	1.05635	129.6277	1.05952	131.5322
$2\frac{1}{32}$	1.05326	127.7960	1.05645	129.6870	1.05961	131.5920
$1\frac{11}{16}$	1.05336	127.8548	1.05655	129.7463	1.05971	131.6517
$2\frac{3}{32}$	1.05346	127.9137	1.05665	129.8057	1.05981	131.7115
$\frac{3}{4}$	1.05356	127.9727	1.05675	129.8650	1.05991	131.7713
$2\frac{5}{32}$	1.05366	128.0316	1.05685	129.9244	1.06001	131.8311
$1\frac{13}{16}$	1.05376	128.0905	1.05694	129.9838	1.06011	131.8909
$2\frac{7}{32}$	1.05386	128.1495	1.05704	130.0431	1.06021	131.9507
$\frac{7}{8}$	1.05396	128.2084	1.05714	130.1025	1.06030	132.0105
$2\frac{9}{32}$	1.05406	128.2674	1.05724	130.1620	1.06040	132.0704
$1\frac{15}{16}$	1.05416	128.3264	1.05734	130.2214	1.06050	132.1302
$3\frac{1}{32}$	1.05426	128.3854	1.05744	130.2808	1.06060	132.1901
1	1.05436	128.4444	1.05754	130.3403	1.06070	132.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.06070	132.2500	1.06383	134.1736	1.06695	136.1111
$\frac{1}{32}$	1.06080	132.3099	1.06393	134.2339	1.06704	136.1719
$\frac{1}{16}$	1.06089	132.3698	1.06403	134.2943	1.06714	136.2327
$\frac{3}{32}$	1.06099	132.4297	1.06413	134.3547	1.06724	136.2935
$\frac{1}{8}$	1.06109	132.4897	1.06422	134.4150	1.06733	136.3543
$\frac{5}{32}$	1.06119	132.5496	1.06432	134.4754	1.06743	136.4151
$\frac{3}{16}$	1.06129	132.6096	1.06442	134.5358	1.06753	136.4759
$\frac{7}{32}$	1.06139	132.6696	1.06452	134.5963	1.06762	136.5368
$\frac{1}{4}$	1.06148	132.7296	1.06461	134.6567	1.06772	136.5977
$\frac{9}{32}$	1.06158	132.7896	1.06471	134.7171	1.06782	136.6585
$\frac{5}{16}$	1.06168	132.8496	1.06481	134.7776	1.06792	136.7194
$\frac{11}{32}$	1.06178	132.9097	1.06491	134.8381	1.06801	136.7803
$\frac{3}{8}$	1.06188	132.9697	1.06500	134.8985	1.06811	136.8413
$\frac{13}{32}$	1.06197	133.0298	1.06510	134.9590	1.06821	136.9022
$\frac{7}{16}$	1.06207	133.0899	1.06520	135.0196	1.06830	136.9631
$\frac{15}{32}$	1.06217	133.1500	1.06530	135.0801	1.06840	137.0241
$\frac{1}{2}$	1.06227	133.2101	1.06539	135.1406	1.06850	137.0851
$\frac{17}{32}$	1.06237	133.2702	1.06549	135.2012	1.06859	137.1461
$\frac{9}{16}$	1.06246	133.3303	1.06559	135.2617	1.06869	137.2071
$\frac{19}{32}$	1.06256	133.3905	1.06568	135.3223	1.06878	137.2681
$\frac{5}{8}$	1.06266	133.4506	1.06578	135.3829	1.06888	137.3291
$\frac{21}{32}$	1.06276	133.5108	1.06588	135.4435	1.06898	137.3901
$\frac{11}{16}$	1.06286	133.5710	1.06598	135.5042	1.06907	137.4512
$\frac{23}{32}$	1.06295	133.6312	1.06607	135.5648	1.06917	137.5123
$\frac{3}{4}$	1.06305	133.6914	1.06617	135.6254	1.06927	137.5734
$\frac{25}{32}$	1.06315	133.7516	1.06627	135.6861	1.06936	137.6344
$\frac{13}{16}$	1.06325	133.8119	1.06636	135.7468	1.06946	137.6956
$\frac{27}{32}$	1.06335	133.8721	1.06646	135.8075	1.06956	137.7567
$\frac{7}{8}$	1.06344	133.9324	1.06656	135.8682	1.06965	137.8178
$\frac{29}{32}$	1.06354	133.9927	1.06666	135.9289	1.06975	137.8790
$\frac{15}{16}$	1.06364	134.0530	1.06675	135.9896	1.06985	137.9401
$\frac{31}{32}$	1.06374	134.1133	1.06685	136.0504	1.06994	138.0013
1	1.06383	134.1736	1.06695	136.1111	1.07004	138.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.07004	138.0625	1.07311	140.0278	1.07615	142.0069
$\frac{1}{32}$	1.07013	138.1237	1.07320	140.0894	1.07625	142.0690
$\frac{1}{16}$	1.07023	138.1849	1.07330	140.1511	1.07634	142.1311
$\frac{3}{32}$	1.07033	138.2462	1.07339	140.2127	1.07644	142.1932
$\frac{1}{8}$	1.07042	138.3074	1.07349	140.2744	1.07653	142.2553
$\frac{5}{32}$	1.07052	138.3687	1.07358	140.3361	1.07663	142.3174
$\frac{3}{16}$	1.07062	138.4299	1.07368	140.3978	1.07672	142.3796
$\frac{7}{32}$	1.07071	138.4912	1.07378	140.4595	1.07682	142.4417
$\frac{1}{4}$	1.07081	138.5525	1.07387	140.5213	1.07691	142.5039
$\frac{9}{32}$	1.07090	138.6138	1.07397	140.5830	1.07701	142.5661
$\frac{5}{16}$	1.07100	138.6752	1.07406	140.6448	1.07710	142.6283
$1\frac{1}{32}$	1.07110	138.7365	1.07416	140.7065	1.07720	142.6905
$\frac{3}{8}$	1.07119	138.7979	1.07425	140.7683	1.07729	142.7527
$1\frac{3}{32}$	1.07129	138.8592	1.07435	140.8301	1.07739	142.8149
$\frac{7}{16}$	1.07138	138.9206	1.07444	140.8920	1.07748	142.8772
$1\frac{5}{32}$	1.07148	138.9820	1.07454	140.9538	1.07758	142.9395
$\frac{1}{2}$	1.07158	139.0434	1.07463	141.0156	1.07767	143.0017
$1\frac{7}{32}$	1.07167	139.1048	1.07473	141.0775	1.07777	143.0640
$\frac{9}{16}$	1.07177	139.1663	1.07482	141.1394	1.07786	143.1263
$1\frac{9}{32}$	1.07186	139.2277	1.07492	141.2012	1.07795	143.1886
$\frac{5}{8}$	1.07196	139.2892	1.07501	141.2631	1.07805	143.2510
$2\frac{1}{32}$	1.07205	139.3506	1.07511	141.3250	1.07814	143.3133
$1\frac{11}{16}$	1.07215	139.4121	1.07520	141.3870	1.07824	143.3757
$2\frac{3}{32}$	1.07225	139.4736	1.07530	141.4489	1.07833	143.4380
$\frac{3}{4}$	1.07234	139.5352	1.07539	141.5109	1.07843	143.5004
$2\frac{5}{32}$	1.07244	139.5967	1.07549	141.5728	1.07852	143.5628
$1\frac{13}{16}$	1.07253	139.6582	1.07558	141.6348	1.07862	143.6252
$2\frac{7}{32}$	1.07263	139.7198	1.07568	141.6968	1.07871	143.6877
$\frac{7}{8}$	1.07272	139.7814	1.07577	141.7588	1.07880	143.7501
$2\frac{9}{32}$	1.07282	139.8429	1.07587	141.8208	1.07890	143.8126
$1\frac{15}{16}$	1.07292	139.9045	1.07596	141.8828	1.07899	143.8750
$2\frac{11}{32}$	1.07301	139.9662	1.07606	141.9449	1.07909	143.9375
1	1.07311	140.0278	1.07615	142.0069	1.07918	144.0000

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.97772	90.2500	0.98152	91.8403	0.98528	93.4444
$\frac{1}{32}$	0.97784	90.2995	0.98163	91.8902	0.98539	93.4948
$\frac{1}{16}$	0.97796	90.3490	0.98175	91.9401	0.98551	93.5452
$\frac{3}{32}$	0.97808	90.3985	0.98187	91.9901	0.98563	93.5955
$\frac{1}{8}$	0.97820	90.4480	0.98199	92.0400	0.98574	93.6459
$\frac{5}{32}$	0.97832	90.4976	0.98211	92.0900	0.98586	93.6963
$\frac{3}{16}$	0.97844	90.5471	0.98222	92.1400	0.98598	93.7468
$\frac{7}{32}$	0.97856	90.5967	0.98234	92.1900	0.98609	93.7972
$\frac{1}{4}$	0.97867	90.6463	0.98246	92.2400	0.98621	93.8477
$\frac{9}{32}$	0.97879	90.6959	0.98258	92.2900	0.98633	93.8981
$\frac{5}{16}$	0.97891	90.7455	0.98270	92.3401	0.98645	93.9486
$\frac{11}{32}$	0.97903	90.7951	0.98281	92.3901	0.98656	93.9991
$\frac{3}{8}$	0.97915	90.8447	0.98293	92.4402	0.98668	94.0496
$\frac{13}{32}$	0.97927	90.8944	0.98305	92.4903	0.98680	94.1001
$\frac{7}{16}$	0.97939	90.9440	0.98317	92.5404	0.98691	94.1506
$\frac{15}{32}$	0.97951	90.9937	0.98328	92.5905	0.98703	94.2012
$\frac{1}{2}$	0.97962	91.0434	0.98340	92.6406	0.98714	94.2517
$\frac{17}{32}$	0.97974	91.0931	0.98352	92.6908	0.98726	94.3023
$\frac{9}{16}$	0.97986	91.1428	0.98364	92.7409	0.98738	94.3529
$\frac{19}{32}$	0.97998	91.1926	0.98375	92.7911	0.98749	94.4035
$\frac{5}{8}$	0.98010	91.2423	0.98387	92.8413	0.98761	94.4541
$\frac{21}{32}$	0.98022	91.2921	0.98399	92.8914	0.98773	94.5047
$\frac{11}{16}$	0.98033	91.3418	0.98411	92.9417	0.98784	94.5554
$\frac{23}{32}$	0.98045	91.3916	0.98422	92.9919	0.98796	94.6060
$\frac{3}{4}$	0.98057	91.4414	0.98434	93.0421	0.98808	94.6567
$\frac{25}{32}$	0.98069	91.4912	0.98446	93.0923	0.98819	94.7074
$\frac{13}{16}$	0.98081	91.5410	0.98457	93.1426	0.98831	94.7581
$\frac{27}{32}$	0.98093	91.5909	0.98469	93.1929	0.98842	94.8088
$\frac{7}{8}$	0.98104	91.6407	0.98481	93.2432	0.98854	94.8595
$\frac{29}{32}$	0.98116	91.6906	0.98493	93.2935	0.98866	94.9102
$\frac{15}{16}$	0.98128	91.7405	0.98504	93.3438	0.98877	94.9610
$\frac{31}{32}$	0.98140	91.7904	0.98516	93.3941	0.98889	95.0117
1	0.98152	91.8403	0.98528	93.4444	0.98900	95.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	0.98900	95.0625	0.99270	96.6944	0.99637	98.3403
$\frac{1}{32}$	0.98912	95.1133	0.99282	96.7457	0.99648	98.3919
$\frac{1}{16}$	0.98924	95.1641	0.99293	96.7969	0.99659	98.4436
$\frac{3}{32}$	0.98935	95.2149	0.99305	96.8482	0.99671	98.4953
$\frac{1}{8}$	0.98947	95.2657	0.99316	96.8994	0.99682	98.5470
$\frac{5}{32}$	0.98958	95.3166	0.99328	96.9507	0.99694	98.5987
$\frac{3}{16}$	0.98970	95.3674	0.99339	97.0020	0.99705	98.6504
$\frac{7}{32}$	0.98982	95.4183	0.99351	97.0533	0.99716	98.7022
$\frac{1}{4}$	0.98993	95.4692	0.99362	97.1046	0.99728	98.7539
$\frac{9}{32}$	0.99005	95.5201	0.99373	97.1559	0.99739	98.8057
$\frac{5}{16}$	0.99016	95.5710	0.99385	97.2073	0.99750	98.8574
$\frac{11}{32}$	0.99028	95.6219	0.99396	97.2586	0.99762	98.9092
$\frac{3}{8}$	0.99039	95.6729	0.99408	97.3100	0.99773	98.9610
$\frac{13}{32}$	0.99051	95.7238	0.99419	97.3614	0.99785	99.0129
$\frac{7}{16}$	0.99063	95.7748	0.99431	97.4128	0.99796	99.0647
$\frac{15}{32}$	0.99074	95.8257	0.99442	97.4642	0.99807	99.1165
$\frac{1}{2}$	0.99086	95.8767	0.99454	97.5156	0.99819	99.1684
$\frac{17}{32}$	0.99097	95.9277	0.99465	97.5671	0.99830	99.2203
$\frac{9}{16}$	0.99109	95.9788	0.99477	97.6185	0.99841	99.2722
$\frac{19}{32}$	0.99120	96.0298	0.99488	97.6700	0.99853	99.3241
$\frac{5}{8}$	0.99132	96.0808	0.99499	97.7215	0.99864	99.3760
$\frac{21}{32}$	0.99143	96.1319	0.99511	97.7730	0.99875	99.4279
$\frac{11}{16}$	0.99155	96.1830	0.99522	97.8245	0.99887	99.4798
$\frac{23}{32}$	0.99166	96.2341	0.99534	97.8760	0.99898	99.5318
$\frac{3}{4}$	0.99178	96.2852	0.99545	97.9275	0.99909	99.5838
$\frac{25}{32}$	0.99189	96.3363	0.99557	97.9791	0.99921	99.6357
$\frac{13}{16}$	0.99201	96.3874	0.99568	98.0306	0.99932	99.6877
$\frac{27}{32}$	0.99213	96.4385	0.99580	98.0822	0.99943	99.7398
$\frac{7}{8}$	0.99224	96.4897	0.99591	98.1338	0.99955	99.7918
$\frac{29}{32}$	0.99236	96.5409	0.99602	98.1854	0.99966	99.8438
$\frac{15}{16}$	0.99247	96.5920	0.99614	98.2370	0.99977	99.8959
$\frac{31}{32}$	0.99259	96.6432	0.99625	98.2886	0.99989	99.9479
1	0.99270	96.6944	0.99637	98.3403	1.00000	100.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.00000	100.0000	1.00360	101.6736	1.00718	103.3611
1/32	1.00011	100.0521	1.00372	101.7261	1.00729	103.4141
1/16	1.00023	100.1042	1.00383	101.7787	1.00740	103.4670
3/32	1.00034	100.1563	1.00394	101.8312	1.00751	103.5200
1/8	1.00045	100.2084	1.00405	101.8838	1.00762	103.5730
5/32	1.00057	100.2606	1.00416	101.9364	1.00773	103.6260
3/16	1.00068	100.3127	1.00428	101.9890	1.00785	103.6791
7/32	1.00079	100.3649	1.00439	102.0416	1.00796	103.7321
1/4	1.00090	100.4171	1.00450	102.0942	1.00807	103.7852
9/32	1.00102	100.4693	1.00461	102.1468	1.00818	103.8382
5/16	1.00113	100.5215	1.00472	102.1995	1.00829	103.8913
11/32	1.00124	100.5737	1.00484	102.2521	1.00840	103.9444
3/8	1.00136	100.6260	1.00495	102.3048	1.00851	103.9975
13/32	1.00147	100.6782	1.00506	102.3575	1.00862	104.0506
7/16	1.00158	100.7305	1.00517	102.4102	1.00873	104.1038
15/32	1.00169	100.7828	1.00528	102.4629	1.00884	104.1569
1/2	1.00181	100.8351	1.00540	102.5156	1.00895	104.2101
17/32	1.00192	100.8874	1.00551	102.5684	1.00907	104.2632
9/16	1.00203	100.9397	1.00562	102.6211	1.00918	104.3164
19/32	1.00214	100.9920	1.00573	102.6739	1.00929	104.3696
5/8	1.00226	101.0444	1.00584	102.7267	1.00940	104.4229
21/32	1.00237	101.0967	1.00595	102.7795	1.00951	104.4761
11/16	1.00248	101.1491	1.00606	102.8323	1.00962	104.5293
23/32	1.00259	101.2015	1.00618	102.8851	1.00973	104.5826
3/4	1.00271	101.2539	1.00629	102.9379	1.00984	104.6359
25/32	1.00282	101.3063	1.00640	102.9908	1.00995	104.6891
13/16	1.00293	101.3588	1.00651	103.0436	1.01006	104.7424
27/32	1.00304	101.4112	1.00662	103.0965	1.01017	104.7957
7/8	1.00316	101.4636	1.00673	103.1494	1.01028	104.8491
29/32	1.00327	101.5161	1.00684	103.2023	1.01039	104.9024
15/16	1.00338	101.5686	1.00696	103.2552	1.01050	104.9558
31/32	1.00349	101.6211	1.00707	103.3082	1.01061	105.0091
1	1.00360	101.6736	1.00718	103.3611	1.01072	105.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.01072	105.0625	1.01424	106.7778	1.01773	108.5069
$\frac{1}{32}$	1.01083	105.1159	1.01435	106.8316	1.01784	108.5612
$\frac{1}{16}$	1.01094	105.1693	1.01446	106.8854	1.01795	108.6155
$\frac{3}{32}$	1.01105	105.2227	1.01457	106.9393	1.01805	108.6698
$\frac{1}{8}$	1.01116	105.2762	1.01468	106.9932	1.01816	108.7241
$\frac{5}{32}$	1.01128	105.3296	1.01479	107.0470	1.01827	108.7784
$\frac{3}{16}$	1.01139	105.3831	1.01490	107.1009	1.01838	108.8327
$\frac{7}{32}$	1.01150	105.4365	1.01501	107.1548	1.01849	108.8871
$\frac{1}{4}$	1.01161	105.4900	1.01512	107.2088	1.01860	108.9414
$\frac{9}{32}$	1.01172	105.5435	1.01522	107.2627	1.01870	108.9958
$\frac{5}{16}$	1.01183	105.5970	1.01533	107.3167	1.01881	109.0502
$\frac{11}{32}$	1.01194	105.6506	1.01544	107.3706	1.01892	109.1046
$\frac{3}{8}$	1.01205	105.7041	1.01555	107.4246	1.01903	109.1590
$\frac{13}{32}$	1.01216	105.7577	1.01566	107.4786	1.01914	109.2134
$\frac{7}{16}$	1.01227	105.8112	1.01577	107.5326	1.01925	109.2678
$\frac{15}{32}$	1.01238	105.8648	1.01588	107.5866	1.01935	109.3223
$\frac{1}{2}$	1.01249	105.9184	1.01599	107.6406	1.01946	109.3767
$\frac{17}{32}$	1.01260	105.9720	1.01610	107.6947	1.01957	109.4312
$\frac{9}{16}$	1.01271	106.0256	1.01621	107.7487	1.01968	109.4857
$\frac{19}{32}$	1.01282	106.0793	1.01632	107.8028	1.01979	109.5402
$\frac{5}{8}$	1.01293	106.1329	1.01642	107.8569	1.01989	109.5947
$\frac{21}{32}$	1.01303	106.1866	1.01653	107.9110	1.02000	109.6493
$\frac{11}{16}$	1.01314	106.2403	1.01664	107.9651	1.02011	109.7038
$\frac{23}{32}$	1.01325	106.2940	1.01675	108.0192	1.02022	109.7584
$\frac{3}{4}$	1.01336	106.3477	1.01686	108.0734	1.02033	109.8129
$\frac{25}{32}$	1.01347	106.4014	1.01697	108.1275	1.02043	109.8675
$\frac{13}{16}$	1.01358	106.4551	1.01708	108.1817	1.02054	109.9221
$\frac{27}{32}$	1.01369	106.5088	1.01719	108.2358	1.02065	109.9767
$\frac{7}{8}$	1.01380	106.5626	1.01729	108.2900	1.02076	110.0314
$\frac{29}{32}$	1.01391	106.6164	1.01740	108.3442	1.02087	110.0860
$\frac{15}{16}$	1.01402	106.6702	1.01751	108.3985	1.02097	110.1407
$\frac{31}{32}$	1.01413	106.7240	1.01762	108.4527	1.02108	110.1953
1	1.01424	106.7778	1.01773	108.5069	1.02119	110.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.02119	110.2500	1.02462	112.0069	1.02803	113.7778
$\frac{1}{32}$	1.02130	110.3047	1.02473	112.0621	1.02813	113.8333
$\frac{1}{16}$	1.02140	110.3594	1.02484	112.1172	1.02824	113.8889
$\frac{3}{32}$	1.02151	110.4141	1.02494	112.1724	1.02835	113.9445
$\frac{1}{8}$	1.02162	110.4689	1.02505	112.2275	1.02845	114.0001
$\frac{5}{32}$	1.02173	110.5236	1.02516	112.2827	1.02856	114.0557
$\frac{3}{16}$	1.02184	110.5784	1.02526	112.3379	1.02866	114.1114
$\frac{7}{32}$	1.02194	110.6331	1.02537	112.3931	1.02877	114.1670
$\frac{1}{4}$	1.02205	110.6879	1.02548	112.4484	1.02888	114.2227
$\frac{9}{32}$	1.02216	110.7427	1.02558	112.5036	1.02898	114.2783
$\frac{5}{16}$	1.02227	110.7976	1.02569	112.5588	1.02909	114.3340
$\frac{11}{32}$	1.02237	110.8524	1.02580	112.6141	1.02919	114.3897
$\frac{3}{8}$	1.02248	110.9072	1.02590	112.6694	1.02930	114.4454
$\frac{13}{32}$	1.02259	110.9621	1.02601	112.7247	1.02940	114.5011
$\frac{7}{16}$	1.02269	111.0170	1.02612	112.7800	1.02951	114.5569
$\frac{15}{32}$	1.02280	111.0718	1.02622	112.8353	1.02962	114.6126
$\frac{1}{2}$	1.02291	111.1267	1.02633	112.8906	1.02972	114.6684
$\frac{17}{32}$	1.02302	111.1816	1.02644	112.9460	1.02983	114.7242
$\frac{9}{16}$	1.02312	111.2366	1.02654	113.0013	1.02993	114.7800
$\frac{19}{32}$	1.02323	111.2915	1.02665	113.0567	1.03004	114.8358
$\frac{5}{8}$	1.02334	111.3465	1.02675	113.1121	1.03014	114.8916
$\frac{21}{32}$	1.02345	111.4014	1.02686	113.1675	1.03025	114.9474
$\frac{11}{16}$	1.02355	111.4564	1.02697	113.2229	1.03036	115.0033
$\frac{23}{32}$	1.02366	111.5114	1.02707	113.2783	1.03046	115.0591
$\frac{3}{4}$	1.02377	111.5664	1.02718	113.3338	1.03057	115.1150
$\frac{25}{32}$	1.02387	111.6214	1.02729	113.3892	1.03067	115.1709
$\frac{13}{16}$	1.02398	111.6765	1.02739	113.4447	1.03078	115.2268
$\frac{27}{32}$	1.02409	111.7315	1.02750	113.5002	1.03088	115.2827
$\frac{7}{8}$	1.02419	111.7866	1.02760	113.5557	1.03099	115.3386
$\frac{29}{32}$	1.02430	111.8416	1.02771	113.6112	1.03109	115.3946
$\frac{15}{16}$	1.02441	111.8967	1.02782	113.6667	1.03120	115.4505
$\frac{31}{32}$	1.02452	111.9518	1.02792	113.7222	1.03130	115.5065
1	1.02462	112.0069	1.02803	113.7778	1.03141	115.5625

10'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.03141	115.5625	1.03476	117.3611	1.03809	119.1736
$\frac{1}{32}$	1.03151	115.6185	1.03487	117.4175	1.03819	119.2305
$\frac{1}{16}$	1.03162	115.6745	1.03497	117.4740	1.03830	119.2874
$\frac{3}{32}$	1.03172	115.7305	1.03508	117.5304	1.03840	119.3442
$\frac{1}{8}$	1.03183	115.7866	1.03518	117.5869	1.03850	119.4012
$\frac{5}{32}$	1.03193	115.8426	1.03528	117.6434	1.03861	119.4581
$\frac{3}{16}$	1.03204	115.8987	1.03539	117.6999	1.03871	119.5150
$\frac{7}{32}$	1.03214	115.9548	1.03549	117.7564	1.03881	119.5719
$\frac{1}{4}$	1.03225	116.0109	1.03560	117.8129	1.03892	119.6289
$\frac{9}{32}$	1.03235	116.0670	1.03570	117.8695	1.03902	119.6859
$\frac{5}{16}$	1.03246	116.1231	1.03580	117.9260	1.03912	119.7429
$\frac{11}{32}$	1.03256	116.1792	1.03591	117.9826	1.03923	119.7999
$\frac{3}{8}$	1.03267	116.2354	1.03601	118.0392	1.03933	119.8569
$\frac{13}{32}$	1.03277	116.2915	1.03612	118.0958	1.03943	119.9139
$\frac{7}{16}$	1.03288	116.3477	1.03622	118.1524	1.03954	119.9709
$\frac{15}{32}$	1.03298	116.4039	1.03633	118.2090	1.03964	120.0280
$\frac{1}{2}$	1.03309	116.4601	1.03643	118.2656	1.03974	120.0851
$\frac{17}{32}$	1.03319	116.5163	1.03653	118.3223	1.03985	120.1422
$\frac{9}{16}$	1.03330	116.5725	1.03664	118.3789	1.03995	120.1992
$\frac{19}{32}$	1.03340	116.6288	1.03674	118.4356	1.04005	120.2564
$\frac{5}{8}$	1.03351	116.6850	1.03685	118.4923	1.04016	120.3135
$\frac{21}{32}$	1.03361	116.7413	1.03695	118.5490	1.04026	120.3706
$\frac{11}{16}$	1.03372	116.7976	1.03705	118.6057	1.04036	120.4278
$\frac{23}{32}$	1.03382	116.8538	1.03716	118.6624	1.04047	120.4849
$\frac{3}{4}$	1.03393	116.9102	1.03726	118.7192	1.04057	120.5421
$\frac{25}{32}$	1.03403	116.9665	1.03736	118.7759	1.04067	120.5993
$\frac{13}{16}$	1.03414	117.0228	1.03747	118.8327	1.04078	120.6565
$\frac{27}{32}$	1.03424	117.0792	1.03757	118.8895	1.04088	120.7137
$\frac{7}{8}$	1.03434	117.1355	1.03768	118.9463	1.04098	120.7709
$\frac{29}{32}$	1.03445	117.1919	1.03778	119.0031	1.04108	120.8282
$\frac{15}{16}$	1.03455	117.2483	1.03788	119.0599	1.04119	120.8854
$\frac{31}{32}$	1.03466	117.3047	1.03799	119.1168	1.04129	120.9427
1	1.03476	117.3611	1.03809	119.1736	1.04139	121.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.04139	121.0000	1.04467	122.8403	1.04792	124.6944
$\frac{1}{32}$	1.04150	121.0573	1.04477	122.8980	1.04802	124.7526
$\frac{1}{16}$	1.04160	121.1146	1.04487	122.9558	1.04813	124.8108
$\frac{3}{32}$	1.04170	121.1719	1.04498	123.0135	1.04823	124.8690
$\frac{1}{8}$	1.04180	121.2293	1.04508	123.0713	1.04833	124.9272
$\frac{5}{32}$	1.04191	121.2866	1.04518	123.1291	1.04843	124.9854
$\frac{3}{16}$	1.04201	121.3440	1.04528	123.1869	1.04853	125.0436
$\frac{7}{32}$	1.04211	121.4014	1.04538	123.2447	1.04863	125.1019
$\frac{1}{4}$	1.04221	121.4588	1.04549	123.3025	1.04873	125.1602
$\frac{9}{32}$	1.04232	121.5162	1.04559	123.3604	1.04883	125.2184
$\frac{5}{16}$	1.04242	121.5736	1.04569	123.4182	1.04894	125.2767
$\frac{11}{32}$	1.04252	121.6310	1.04579	123.4761	1.04904	125.3350
$\frac{3}{8}$	1.04262	121.6885	1.04589	123.5340	1.04914	125.3933
$\frac{13}{32}$	1.04273	121.7459	1.04599	123.5919	1.04924	125.4517
$\frac{7}{16}$	1.04283	121.8034	1.04610	123.6498	1.04934	125.5100
$\frac{15}{32}$	1.04293	121.8609	1.04620	123.7077	1.04944	125.5684
$\frac{1}{2}$	1.04303	121.9184	1.04630	123.7656	1.04954	125.6267
$\frac{17}{32}$	1.04314	121.9759	1.04640	123.8236	1.04964	125.6851
$\frac{9}{16}$	1.04324	122.0334	1.04650	123.8815	1.04974	125.7435
$\frac{19}{32}$	1.04334	122.0910	1.04660	123.9395	1.04984	125.8019
$\frac{5}{8}$	1.04344	122.1485	1.04671	123.9975	1.04994	125.8604
$\frac{21}{32}$	1.04355	122.2061	1.04681	124.0555	1.05005	125.9188
$\frac{11}{16}$	1.04365	122.2637	1.04691	124.1135	1.05015	125.9772
$\frac{23}{32}$	1.04375	122.3213	1.04701	124.1716	1.05025	126.0357
$\frac{3}{4}$	1.04385	122.3789	1.04711	124.2296	1.05035	126.0942
$\frac{25}{32}$	1.04396	122.4365	1.04721	124.2877	1.05045	126.1527
$\frac{13}{16}$	1.04406	122.4942	1.04732	124.3457	1.05055	126.2112
$\frac{27}{32}$	1.04416	122.5518	1.04742	124.4038	1.05065	126.2697
$\frac{7}{8}$	1.04426	122.6095	1.04752	124.4619	1.05075	126.3282
$\frac{29}{32}$	1.04436	122.6672	1.04762	124.5200	1.05085	126.3868
$\frac{15}{16}$	1.04447	122.7249	1.04772	124.5782	1.05095	126.4453
$\frac{31}{32}$	1.04457	122.7826	1.04782	124.6363	1.05105	126.5039
1	1.04467	122.8403	1.04792	124.6944	1.05115	126.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.05115	126.5625	1.05436	128.4444	1.05754	130.3403
$\frac{1}{32}$	1.05125	126.6211	1.05446	128.5035	1.05764	130.3997
$\frac{1}{16}$	1.05135	126.6797	1.05456	128.5625	1.05774	130.4592
$\frac{3}{32}$	1.05145	126.7383	1.05466	128.6216	1.05784	130.5187
$\frac{1}{8}$	1.05155	126.7970	1.05476	128.6807	1.05794	130.5782
$\frac{5}{32}$	1.05165	126.8556	1.05486	128.7398	1.05803	130.6378
$\frac{3}{16}$	1.05176	126.9143	1.05496	128.7989	1.05813	130.6973
$\frac{7}{32}$	1.05186	126.9730	1.05506	128.8580	1.05823	130.7568
$\frac{1}{4}$	1.05196	127.0317	1.05516	128.9171	1.05833	130.8164
$\frac{9}{32}$	1.05206	127.0904	1.05525	128.9762	1.05843	130.8760
$\frac{5}{16}$	1.05216	127.1491	1.05535	129.0354	1.05853	130.9356
$\frac{11}{32}$	1.05226	127.2079	1.05545	129.0946	1.05863	130.9952
$\frac{3}{8}$	1.05236	127.2666	1.05555	129.1538	1.05873	131.0548
$\frac{13}{32}$	1.05246	127.3254	1.05565	129.2130	1.05883	131.1144
$\frac{7}{16}$	1.05256	127.3841	1.05575	129.2722	1.05892	131.1741
$\frac{15}{32}$	1.05266	127.4429	1.05585	129.3314	1.05902	131.2337
$\frac{1}{2}$	1.05276	127.5017	1.05595	129.3906	1.05912	131.2934
$\frac{17}{32}$	1.05286	127.5606	1.05605	129.4499	1.05922	131.3531
$\frac{9}{16}$	1.05296	127.6194	1.05615	129.5091	1.05932	131.4128
$\frac{19}{32}$	1.05306	127.6782	1.05625	129.5684	1.05942	131.4725
$\frac{5}{8}$	1.05316	127.7371	1.05635	129.6277	1.05952	131.5322
$\frac{21}{32}$	1.05326	127.7960	1.05645	129.6870	1.05961	131.5920
$\frac{11}{16}$	1.05336	127.8548	1.05655	129.7463	1.05971	131.6517
$\frac{23}{32}$	1.05346	127.9137	1.05665	129.8057	1.05981	131.7115
$\frac{3}{4}$	1.05356	127.9727	1.05675	129.8650	1.05991	131.7713
$\frac{25}{32}$	1.05366	128.0316	1.05685	129.9244	1.06001	131.8311
$\frac{13}{16}$	1.05376	128.0905	1.05694	129.9838	1.06011	131.8909
$\frac{27}{32}$	1.05386	128.1495	1.05704	130.0431	1.06021	131.9507
$\frac{7}{8}$	1.05396	128.2084	1.05714	130.1025	1.06030	132.0105
$\frac{29}{32}$	1.05406	128.2674	1.05724	130.1620	1.06040	132.0704
$\frac{15}{16}$	1.05416	128.3264	1.05734	130.2214	1.06050	132.1302
$\frac{31}{32}$	1.05426	128.3854	1.05744	130.2808	1.06060	132.1901
1	1.05436	128.4444	1.05754	130.3403	1.06070	132.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.06070	132.2500	1.06383	134.1736	1.06695	136.1111
$\frac{1}{32}$	1.06080	132.3099	1.06393	134.2339	1.06704	136.1719
$\frac{1}{16}$	1.06089	132.3698	1.06403	134.2943	1.06714	136.2327
$\frac{3}{32}$	1.06099	132.4297	1.06413	134.3547	1.06724	136.2935
$\frac{1}{8}$	1.06109	132.4897	1.06422	134.4150	1.06733	136.3543
$\frac{5}{32}$	1.06119	132.5496	1.06432	134.4754	1.06743	136.4151
$\frac{3}{16}$	1.06129	132.6096	1.06442	134.5358	1.06753	136.4759
$\frac{7}{32}$	1.06139	132.6696	1.06452	134.5963	1.06762	136.5368
$\frac{1}{4}$	1.06148	132.7296	1.06461	134.6567	1.06772	136.5977
$\frac{9}{32}$	1.06158	132.7896	1.06471	134.7171	1.06782	136.6585
$\frac{5}{16}$	1.06168	132.8496	1.06481	134.7776	1.06792	136.7194
$\frac{11}{32}$	1.06178	132.9097	1.06491	134.8381	1.06801	136.7803
$\frac{3}{8}$	1.06188	132.9697	1.06500	134.8985	1.06811	136.8413
$\frac{13}{32}$	1.06197	133.0298	1.06510	134.9590	1.06821	136.9022
$\frac{7}{16}$	1.06207	133.0899	1.06520	135.0196	1.06830	136.9631
$\frac{15}{32}$	1.06217	133.1500	1.06530	135.0801	1.06840	137.0241
$\frac{1}{2}$	1.06227	133.2101	1.06539	135.1406	1.06850	137.0851
$\frac{17}{32}$	1.06237	133.2702	1.06549	135.2012	1.06859	137.1461
$\frac{9}{16}$	1.06246	133.3303	1.06559	135.2617	1.06869	137.2071
$\frac{19}{32}$	1.06256	133.3905	1.06568	135.3223	1.06878	137.2681
$\frac{5}{8}$	1.06266	133.4506	1.06578	135.3829	1.06888	137.3291
$\frac{21}{32}$	1.06276	133.5108	1.06588	135.4435	1.06898	137.3901
$\frac{11}{16}$	1.06286	133.5710	1.06598	135.5042	1.06907	137.4512
$\frac{23}{32}$	1.06295	133.6312	1.06607	135.5648	1.06917	137.5123
$\frac{3}{4}$	1.06305	133.6914	1.06617	135.6254	1.06927	137.5734
$\frac{25}{32}$	1.06315	133.7516	1.06627	135.6861	1.06936	137.6344
$\frac{13}{16}$	1.06325	133.8119	1.06636	135.7468	1.06946	137.6956
$\frac{27}{32}$	1.06335	133.8721	1.06646	135.8075	1.06956	137.7567
$\frac{7}{8}$	1.06344	133.9324	1.06656	135.8682	1.06965	137.8178
$\frac{29}{32}$	1.06354	133.9927	1.06666	135.9289	1.06975	137.8790
$\frac{15}{16}$	1.06364	134.0530	1.06675	135.9896	1.06985	137.9401
$\frac{31}{32}$	1.06374	134.1133	1.06685	136.0504	1.06994	138.0013
1	1.06383	134.1736	1.06695	136.1111	1.07004	138.0625

11'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.07004	138.0625	1.07311	140.0278	1.07615	142.0069
$\frac{1}{32}$	1.07013	138.1237	1.07320	140.0894	1.07625	142.0690
$\frac{1}{16}$	1.07023	138.1849	1.07330	140.1511	1.07634	142.1311
$\frac{3}{32}$	1.07033	138.2462	1.07339	140.2127	1.07644	142.1932
$\frac{1}{8}$	1.07042	138.3074	1.07349	140.2744	1.07653	142.2553
$\frac{5}{32}$	1.07052	138.3687	1.07358	140.3361	1.07663	142.3174
$\frac{3}{16}$	1.07062	138.4299	1.07368	140.3978	1.07672	142.3796
$\frac{7}{32}$	1.07071	138.4912	1.07378	140.4595	1.07682	142.4417
$\frac{1}{4}$	1.07081	138.5525	1.07387	140.5213	1.07691	142.5039
$\frac{9}{32}$	1.07090	138.6138	1.07397	140.5830	1.07701	142.5661
$\frac{5}{16}$	1.07100	138.6752	1.07406	140.6448	1.07710	142.6283
$\frac{11}{32}$	1.07110	138.7365	1.07416	140.7065	1.07720	142.6905
$\frac{3}{8}$	1.07119	138.7979	1.07425	140.7683	1.07729	142.7527
$\frac{13}{32}$	1.07129	138.8592	1.07435	140.8301	1.07739	142.8149
$\frac{7}{16}$	1.07138	138.9206	1.07444	140.8920	1.07748	142.8772
$\frac{15}{32}$	1.07148	138.9820	1.07454	140.9538	1.07758	142.9395
$\frac{1}{2}$	1.07158	139.0434	1.07463	141.0156	1.07767	143.0017
$\frac{17}{32}$	1.07167	139.1048	1.07473	141.0775	1.07777	143.0640
$\frac{9}{16}$	1.07177	139.1663	1.07482	141.1394	1.07786	143.1263
$\frac{19}{32}$	1.07186	139.2277	1.07492	141.2012	1.07795	143.1886
$\frac{5}{8}$	1.07196	139.2892	1.07501	141.2631	1.07805	143.2510
$\frac{21}{32}$	1.07205	139.3506	1.07511	141.3250	1.07814	143.3133
$\frac{11}{16}$	1.07215	139.4121	1.07520	141.3870	1.07824	143.3757
$\frac{23}{32}$	1.07225	139.4736	1.07530	141.4489	1.07833	143.4380
$\frac{3}{4}$	1.07234	139.5352	1.07539	141.5109	1.07843	143.5004
$\frac{25}{32}$	1.07244	139.5967	1.07549	141.5728	1.07852	143.5628
$\frac{13}{16}$	1.07253	139.6582	1.07558	141.6348	1.07862	143.6252
$\frac{27}{32}$	1.07263	139.7198	1.07568	141.6968	1.07871	143.6877
$\frac{7}{8}$	1.07272	139.7814	1.07577	141.7588	1.07880	143.7501
$\frac{29}{32}$	1.07282	139.8429	1.07587	141.8208	1.07890	143.8126
$\frac{15}{16}$	1.07292	139.9045	1.07596	141.8828	1.07899	143.8750
$\frac{31}{32}$	1.07301	139.9662	1.07606	141.9449	1.07909	143.9375
1	1.07311	140.0278	1.07615	142.0069	1.07918	144.0000

Fractions of an Inch.	0"		.1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.07918	144.0000	1.08219	146.0069	1.08517	148.0278
$\frac{1}{32}$	1.07928	144.0625	1.08228	146.0699	1.08526	148.0912
$\frac{1}{16}$	1.07937	144.1250	1.08237	146.1328	1.08536	148.1545
$\frac{3}{32}$	1.07946	144.1876	1.08247	146.1958	1.08545	148.2179
$\frac{1}{8}$	1.07956	144.2501	1.08256	146.2588	1.08554	148.2814
$\frac{5}{32}$	1.07965	144.3127	1.08265	146.3218	1.08564	148.3448
$\frac{3}{16}$	1.07975	144.3752	1.08275	146.3848	1.08573	148.4082
$\frac{7}{32}$	1.07984	144.4378	1.08284	146.4478	1.08582	148.4717
$\frac{1}{4}$	1.07993	144.5004	1.08293	146.5109	1.08591	148.5352
$\frac{9}{32}$	1.08003	144.5630	1.08303	146.5739	1.08601	148.5986
$\frac{5}{16}$	1.08012	144.6257	1.08312	146.6370	1.08610	148.6621
$\frac{11}{32}$	1.08022	144.6883	1.08322	146.7000	1.08619	148.7256
$\frac{3}{8}$	1.08031	144.7510	1.08331	146.7631	1.08629	148.7892
$\frac{13}{32}$	1.08040	144.8136	1.08340	146.8262	1.08638	148.8527
$\frac{7}{16}$	1.08050	144.8763	1.08350	146.8893	1.08647	148.9163
$\frac{15}{32}$	1.08059	144.9390	1.08359	146.9525	1.08656	148.9798
$\frac{1}{2}$	1.08069	145.0017	1.08368	147.0156	1.08666	149.0434
$\frac{17}{32}$	1.08078	145.0645	1.08378	147.0788	1.08675	149.1070
$\frac{9}{16}$	1.08087	145.1272	1.08387	147.1420	1.08684	149.1706
$\frac{19}{32}$	1.08097	145.1899	1.08396	147.2051	1.08693	149.2342
$\frac{5}{8}$	1.08106	145.2527	1.08405	147.2683	1.08703	149.2979
$\frac{21}{32}$	1.08116	145.3155	1.08415	147.3315	1.08712	149.3615
$\frac{11}{16}$	1.08125	145.3783	1.08424	147.3948	1.08721	149.4252
$\frac{23}{32}$	1.08134	145.4411	1.08433	147.4580	1.08730	149.4888
$\frac{3}{4}$	1.08144	145.5039	1.08443	147.5213	1.08740	149.5525
$\frac{25}{32}$	1.08153	145.5667	1.08452	147.5845	1.08749	149.6162
$\frac{13}{16}$	1.08162	145.6296	1.08461	147.6478	1.08758	149.6799
$\frac{27}{32}$	1.08172	145.6924	1.08471	147.7111	1.08767	149.7437
$\frac{7}{8}$	1.08181	145.7553	1.08480	147.7744	1.08777	149.8074
$\frac{29}{32}$	1.08191	145.8182	1.08489	147.8377	1.08786	149.8712
$\frac{15}{16}$	1.08200	145.8811	1.08499	147.9011	1.08795	149.9349
$\frac{31}{32}$	1.08209	145.9440	1.08508	147.9644	1.08804	149.9987
1	1.08219	146.0069	1.08517	148.0278	1.08814	150.0625

Fractions of an inch.	3"		4		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.08814	150.0625	1.09108	152.1111	1.09401	154.1736
$\frac{1}{32}$	1.08823	150.1263	1.09117	152.1754	1.09410	154.2383
$\frac{1}{16}$	1.08832	150.1901	1.09126	152.2396	1.09419	154.3030
$\frac{3}{32}$	1.08841	150.2540	1.09136	152.3039	1.09428	154.3677
$\frac{1}{8}$	1.08851	150.3178	1.09145	152.3682	1.09437	154.4324
$\frac{5}{32}$	1.08860	150.3817	1.09154	152.4325	1.09446	154.4971
$\frac{3}{16}$	1.08869	150.4456	1.09163	152.4968	1.09455	154.5619
$\frac{7}{32}$	1.08878	150.5094	1.09172	152.5611	1.09464	154.6266
$\frac{1}{4}$	1.08887	150.5734	1.09181	152.6254	1.09473	154.6914
$\frac{9}{32}$	1.08897	150.6373	1.09190	152.6898	1.09482	154.7562
$\frac{5}{16}$	1.08906	150.7012	1.09200	152.7542	1.09491	154.8210
$\frac{11}{32}$	1.08915	150.7651	1.09209	152.8185	1.09501	154.8858
$\frac{3}{8}$	1.08924	150.8291	1.09218	152.8829	1.09510	154.9506
$\frac{13}{32}$	1.08933	150.8931	1.09227	152.9473	1.09519	155.0155
$\frac{7}{16}$	1.08943	150.9571	1.09236	153.0117	1.09528	155.0803
$\frac{15}{32}$	1.08952	151.0211	1.09245	153.0762	1.09537	155.1452
$\frac{1}{2}$	1.08961	151.0851	1.09255	153.1406	1.09546	155.2101
$\frac{17}{32}$	1.08970	151.1491	1.09264	153.2051	1.09555	155.2750
$\frac{9}{16}$	1.08979	151.2131	1.09273	153.2696	1.09564	155.3399
$\frac{19}{32}$	1.08989	151.2772	1.09282	153.3340	1.09573	155.4048
$\frac{5}{8}$	1.08998	151.3413	1.09291	153.3985	1.09582	155.4697
$\frac{21}{32}$	1.09007	151.4053	1.09300	153.4631	1.09591	155.5347
$\frac{11}{16}$	1.09016	151.4694	1.09309	153.5276	1.09600	155.5996
$\frac{23}{32}$	1.09025	151.5335	1.09318	153.5921	1.09609	155.6646
$\frac{3}{4}$	1.09035	151.5977	1.09328	153.6567	1.09619	155.7296
$\frac{25}{32}$	1.09044	151.6618	1.09337	153.7213	1.09628	155.7946
$\frac{13}{16}$	1.09053	151.7259	1.09346	153.7858	1.09637	155.8596
$\frac{27}{32}$	1.09062	151.7901	1.09355	153.8504	1.09646	155.9246
$\frac{7}{8}$	1.09071	151.8543	1.09364	153.9150	1.09655	155.9897
$\frac{29}{32}$	1.09081	151.9185	1.09373	153.9797	1.09664	156.0547
$\frac{15}{16}$	1.09090	151.9827	1.09382	154.0443	1.09673	156.1198
$\frac{31}{32}$	1.09099	152.0469	1.09391	154.1089	1.09682	156.1849
1	1.09108	152.1111	1.09401	154.1736	1.09691	156.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.09691	156.2500	1.09980	158.3403	1.10266	160.4444
$\frac{1}{32}$	1.09700	156.3151	1.09989	158.4058	1.10275	160.5104
$\frac{1}{16}$	1.09709	156.3802	1.09998	158.4714	1.10284	160.5764
$\frac{3}{32}$	1.09718	156.4454	1.10007	158.5370	1.10293	160.6424
$\frac{1}{8}$	1.09727	156.5105	1.10016	158.6025	1.10302	160.7084
$\frac{5}{32}$	1.09736	156.5757	1.10024	158.6681	1.10311	160.7745
$\frac{3}{16}$	1.09745	156.6409	1.10033	158.7338	1.10320	160.8405
$\frac{7}{32}$	1.09754	156.7061	1.10042	158.7994	1.10329	160.9066
$\frac{1}{4}$	1.09763	156.7713	1.10051	158.8650	1.10338	160.9727
$\frac{9}{32}$	1.09772	156.8365	1.10060	158.9307	1.10347	161.0387
$\frac{5}{16}$	1.09781	156.9017	1.10069	158.9963	1.10355	161.1048
$1\frac{1}{32}$	1.09790	156.9670	1.10078	159.0620	1.10364	161.1710
$\frac{3}{8}$	1.09799	157.0322	1.10087	159.1277	1.10373	161.2371
$1\frac{3}{32}$	1.09808	157.0975	1.10096	159.1934	1.10382	161.3032
$\frac{7}{16}$	1.09817	157.1628	1.10105	159.2591	1.10391	161.3694
$1\frac{5}{32}$	1.09827	157.2281	1.10114	159.3249	1.10400	161.4356
$\frac{1}{2}$	1.09836	157.2934	1.10123	159.3906	1.10409	161.5017
$1\frac{7}{32}$	1.09845	157.3587	1.10132	159.4564	1.10418	161.5679
$\frac{9}{16}$	1.09854	157.4241	1.10141	159.5222	1.10427	161.6341
$1\frac{9}{32}$	1.09863	157.4894	1.10150	159.5880	1.10436	161.7004
$\frac{5}{8}$	1.09872	157.5548	1.10159	159.6538	1.10444	161.7666
$2\frac{1}{32}$	1.09881	157.6202	1.10168	159.7196	1.10453	161.8329
$1\frac{11}{16}$	1.09890	157.6856	1.10177	159.7854	1.10462	161.8991
$2\frac{3}{32}$	1.09899	157.7510	1.10186	159.8512	1.10471	161.9654
$\frac{3}{4}$	1.09908	157.8164	1.10195	159.9171	1.10480	162.0317
$2\frac{5}{32}$	1.09917	157.8818	1.10204	159.9830	1.10489	162.0980
$1\frac{13}{16}$	1.09926	157.9473	1.10213	160.0489	1.10498	162.1643
$2\frac{7}{32}$	1.09935	158.0128	1.10222	160.1148	1.10507	162.2306
$\frac{7}{8}$	1.09944	158.0782	1.10231	160.1807	1.10516	162.2970
$2\frac{9}{32}$	1.09953	158.1437	1.10239	160.2466	1.10524	162.3633
$1\frac{15}{16}$	1.09962	158.2092	1.10248	160.3125	1.10533	162.4297
$3\frac{1}{32}$	1.09971	158.2747	1.10257	160.3785	1.10542	162.4961
1	1.09980	158.3403	1.10266	160.4444	1.10551	162.5625

12'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.10551	162.5625	1.10834	164.6944	1.11115	166.8403
$\frac{1}{32}$	1.10560	162.6289	1.10843	164.7613	1.11124	166.9076
$\frac{1}{16}$	1.10569	162.6953	1.10852	164.8282	1.11133	166.9749
$\frac{3}{32}$	1.10578	162.7618	1.10860	164.8950	1.11141	167.0422
$\frac{1}{8}$	1.10586	162.8282	1.10869	164.9619	1.11150	167.1095
$\frac{5}{32}$	1.10595	162.8947	1.10878	165.0288	1.11159	167.1768
$\frac{3}{16}$	1.10604	162.9612	1.10887	165.0957	1.11168	167.2442
$\frac{7}{32}$	1.10613	163.0277	1.10896	165.1627	1.11176	167.3115
$\frac{1}{4}$	1.10622	163.0942	1.10904	165.2296	1.11185	167.3789
$\frac{9}{32}$	1.10631	163.1607	1.10913	165.2966	1.11194	167.4463
$\frac{5}{16}$	1.10640	163.2272	1.10922	165.3635	1.11203	167.5137
$\frac{11}{32}$	1.10648	163.2938	1.10931	165.4305	1.11211	167.5811
$\frac{3}{8}$	1.10657	163.3604	1.10940	165.4975	1.11220	167.6485
$\frac{13}{32}$	1.10666	163.4269	1.10948	165.5645	1.11229	167.7160
$\frac{7}{16}$	1.10675	163.4935	1.10957	165.6315	1.11237	167.7834
$\frac{15}{32}$	1.10684	163.5601	1.10966	165.6986	1.11246	167.8509
$\frac{1}{2}$	1.10693	163.6267	1.10975	165.7656	1.11255	167.9184
$\frac{17}{32}$	1.10702	163.6934	1.10984	165.8327	1.11264	167.9859
$\frac{9}{16}$	1.10710	163.7600	1.10992	165.8998	1.11272	168.0534
$\frac{19}{32}$	1.10719	163.8267	1.11001	165.9669	1.11281	168.1209
$\frac{5}{8}$	1.10728	163.8933	1.11010	166.0340	1.11290	168.1885
$\frac{21}{32}$	1.10737	163.9600	1.11019	166.1011	1.11299	168.2560
$\frac{11}{16}$	1.10746	164.0267	1.11027	166.1682	1.11307	168.3236
$\frac{23}{32}$	1.10755	164.0934	1.11036	166.2354	1.11316	168.3912
$\frac{3}{4}$	1.10763	164.1602	1.11045	166.3025	1.11325	168.4588
$\frac{25}{32}$	1.10772	164.2269	1.11054	166.3697	1.11333	168.5264
$\frac{13}{16}$	1.10781	164.2936	1.11062	166.4369	1.11342	168.5940
$\frac{27}{32}$	1.10790	164.3604	1.11071	166.5041	1.11351	168.6616
$\frac{7}{8}$	1.10799	164.4272	1.11080	166.5713	1.11360	168.7293
$\frac{29}{32}$	1.10808	164.4940	1.11089	166.6385	1.11368	168.7969
$\frac{15}{16}$	1.10816	164.5608	1.11098	166.7058	1.11377	168.8646
$\frac{31}{32}$	1.10825	164.6276	1.11106	166.7730	1.11386	168.9323
1	1.10834	164.6944	1.11115	166.8403	1.11394	169.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.11394	169.0000	1.11672	171.1736	1.11948	173.3611
$\frac{1}{32}$	1.11403	169.0677	1.11680	171.2418	1.11956	173.4297
$\frac{1}{16}$	1.11412	169.1354	1.11689	171.3099	1.11965	173.4983
$\frac{3}{32}$	1.11420	169.2032	1.11698	171.3781	1.11973	173.5669
$\frac{1}{8}$	1.11429	169.2709	1.11706	171.4463	1.11982	173.6355
$\frac{5}{32}$	1.11438	169.3387	1.11715	171.5145	1.11991	173.7042
$\frac{3}{16}$	1.11447	169.4065	1.11724	171.5827	1.11999	173.7728
$\frac{7}{32}$	1.11455	169.4743	1.11732	171.6509	1.12008	173.8415
$\frac{1}{4}$	1.11464	169.5421	1.11741	171.7192	1.12016	173.9102
$\frac{9}{32}$	1.11473	169.6099	1.11750	171.7874	1.12025	173.9788
$\frac{5}{16}$	1.11481	169.6778	1.11758	171.8557	1.12033	174.0476
$\frac{11}{32}$	1.11490	169.7456	1.11767	171.9240	1.12042	174.1163
$\frac{3}{8}$	1.11499	169.8135	1.11775	171.9923	1.12051	174.1850
$\frac{13}{32}$	1.11507	169.8814	1.11784	172.0606	1.12059	174.2538
$\frac{7}{16}$	1.11516	169.9492	1.11793	172.1289	1.12068	174.3225
$\frac{15}{32}$	1.11525	170.0172	1.11801	172.1973	1.12076	174.3913
$\frac{1}{2}$	1.11533	170.0851	1.11810	172.2656	1.12085	174.4601
$\frac{17}{32}$	1.11542	170.1530	1.11819	172.3340	1.12093	174.5289
$\frac{9}{16}$	1.11551	170.2209	1.11827	172.4024	1.12102	174.5977
$\frac{19}{32}$	1.11559	170.2889	1.11836	172.4708	1.12110	174.6665
$\frac{5}{8}$	1.11568	170.3569	1.11844	172.5392	1.12119	174.7354
$\frac{21}{32}$	1.11577	170.4249	1.11853	172.6076	1.12128	174.8042
$\frac{11}{16}$	1.11585	170.4929	1.11862	172.6760	1.12136	174.8731
$\frac{23}{32}$	1.11594	170.5609	1.11870	172.7445	1.12145	174.9420
$\frac{3}{4}$	1.11603	170.6289	1.11879	172.8129	1.12153	175.0109
$\frac{25}{32}$	1.11611	170.6969	1.11887	172.8814	1.12162	175.0798
$\frac{13}{16}$	1.11620	170.7650	1.11896	172.9499	1.12170	175.1487
$\frac{27}{32}$	1.11629	170.8331	1.11905	173.0184	1.12179	175.2176
$\frac{7}{8}$	1.11637	170.9011	1.11913	173.0869	1.12187	175.2866
$\frac{29}{32}$	1.11646	170.9692	1.11922	173.1554	1.12196	175.3555
$\frac{15}{16}$	1.11655	171.0374	1.11930	173.2240	1.12205	175.4245
$\frac{31}{32}$	1.11663	171.1055	1.11939	173.2925	1.12213	175.4935
1	1.11672	171.1736	1.11948	173.3611	1.12222	175.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.12222	175.5625	1.12494	177.7778	1.12764	180.0069
$\frac{1}{32}$	1.12230	175.6315	1.12502	177.8472	1.12773	180.0768
$\frac{1}{16}$	1.12239	175.7005	1.12511	177.9167	1.12781	180.1467
$\frac{3}{32}$	1.12247	175.7696	1.12519	177.9862	1.12790	180.2166
$\frac{1}{8}$	1.12256	175.8387	1.12528	178.0557	1.12798	180.2866
$\frac{5}{32}$	1.12264	175.9077	1.12536	178.1252	1.12807	180.3565
$\frac{3}{16}$	1.12273	175.9768	1.12545	178.1947	1.12815	180.4265
$\frac{7}{32}$	1.12281	176.0459	1.12553	178.2642	1.12823	180.4964
$\frac{1}{4}$	1.12290	176.1150	1.12562	178.3338	1.12832	180.5664
$\frac{9}{32}$	1.12298	176.1841	1.12570	178.4033	1.12840	180.6364
$\frac{5}{16}$	1.12307	176.2533	1.12579	178.4729	1.12849	180.7064
$\frac{11}{32}$	1.12315	176.3224	1.12587	178.5425	1.12857	180.7764
$\frac{3}{8}$	1.12324	176.3916	1.12596	178.6121	1.12866	180.8465
$\frac{13}{32}$	1.12332	176.4608	1.12604	178.6817	1.12874	180.9165
$\frac{7}{16}$	1.12341	176.5300	1.12612	178.7513	1.12882	180.9866
$\frac{15}{32}$	1.12349	176.5992	1.12621	178.8210	1.12891	181.0566
$\frac{1}{2}$	1.12358	176.6684	1.12629	178.8906	1.12899	181.1267
$\frac{17}{32}$	1.12366	176.7376	1.12638	178.9603	1.12908	181.1968
$\frac{9}{16}$	1.12375	176.8069	1.12646	179.0300	1.12916	181.2670
$\frac{19}{32}$	1.12383	176.8761	1.12655	179.0997	1.12924	181.3371
$\frac{5}{8}$	1.12392	176.9454	1.12663	179.1694	1.12933	181.4072
$\frac{21}{32}$	1.12400	177.0147	1.12672	179.2391	1.12941	181.4774
$\frac{11}{16}$	1.12409	177.0840	1.12680	179.3088	1.12950	181.5476
$\frac{23}{32}$	1.12417	177.1533	1.12689	179.3786	1.12958	181.6177
$\frac{3}{4}$	1.12426	177.2227	1.12697	179.4484	1.12966	181.6879
$\frac{25}{32}$	1.12434	177.2920	1.12705	179.5181	1.12975	181.7581
$\frac{13}{16}$	1.12443	177.3614	1.12714	179.5879	1.12983	181.8284
$\frac{27}{32}$	1.12451	177.4307	1.12722	179.6577	1.12991	181.8986
$\frac{7}{8}$	1.12460	177.5001	1.12731	179.7275	1.13000	181.9689
$\frac{29}{32}$	1.12468	177.5695	1.12739	179.7974	1.13008	182.0391
$\frac{15}{16}$	1.12477	177.6389	1.12748	179.8672	1.13017	182.1094
$\frac{31}{32}$	1.12485	177.7083	1.12756	179.9371	1.13025	182.1797
1	1.12494	177.7778	1.12764	180.0069	1.13033	182.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.13033	182.2500	1.13301	184.5069	1.13566	186.7778
$\frac{1}{32}$	1.13042	182.3203	1.13309	184.5777	1.13575	186.8490
$\frac{1}{16}$	1.13050	182.3907	1.13317	184.6485	1.13583	186.9202
$\frac{3}{32}$	1.13059	182.4610	1.13326	184.7192	1.13591	186.9914
$\frac{1}{8}$	1.13067	182.5314	1.13334	184.7900	1.13599	187.0626
$\frac{5}{32}$	1.13075	182.6017	1.13342	184.8608	1.13608	187.1339
$\frac{3}{16}$	1.13084	182.6721	1.13351	184.9317	1.13616	187.2051
$\frac{7}{32}$	1.13092	182.7425	1.13359	185.0025	1.13624	187.2764
$\frac{1}{4}$	1.13100	182.8129	1.13367	185.0734	1.13632	187.3477
$\frac{9}{32}$	1.13109	182.8834	1.13376	185.1442	1.13641	187.4190
$\frac{5}{16}$	1.13117	182.9538	1.13384	185.2151	1.13649	187.4903
$\frac{11}{32}$	1.13125	183.0243	1.13392	185.2860	1.13657	187.5616
$\frac{3}{8}$	1.13134	183.0947	1.13400	185.3569	1.13665	187.6329
$\frac{13}{32}$	1.13142	183.1652	1.13409	185.4278	1.13674	187.7043
$\frac{7}{16}$	1.13151	183.2357	1.13417	185.4987	1.13682	187.7756
$\frac{15}{32}$	1.13159	183.3062	1.13425	185.5697	1.13690	187.8470
$\frac{1}{2}$	1.13167	183.3767	1.13434	185.6406	1.13698	187.9184
$\frac{17}{32}$	1.13176	183.4473	1.13442	185.7116	1.13707	187.9898
$\frac{9}{16}$	1.13184	183.5178	1.13450	185.7826	1.13715	188.0612
$\frac{19}{32}$	1.13192	183.5884	1.13459	185.8536	1.13723	188.1327
$\frac{5}{8}$	1.13201	183.6590	1.13467	185.9246	1.13731	188.2041
$\frac{21}{32}$	1.13209	183.7296	1.13475	185.9956	1.13740	188.2756
$\frac{11}{16}$	1.13217	183.8002	1.13483	186.0667	1.13748	188.3470
$\frac{23}{32}$	1.13226	183.8708	1.13492	186.1377	1.13756	188.4185
$\frac{3}{4}$	1.13234	183.9414	1.13500	186.2088	1.13764	188.4900
$\frac{25}{32}$	1.13242	184.0121	1.13508	186.2798	1.13773	188.5615
$\frac{13}{16}$	1.13251	184.0827	1.13517	186.3509	1.13781	188.6331
$\frac{27}{32}$	1.13259	184.1534	1.13525	186.4220	1.13789	188.7046
$\frac{7}{8}$	1.13267	184.2241	1.13533	186.4932	1.13797	188.7762
$\frac{29}{32}$	1.13276	184.2948	1.13541	186.5643	1.13806	188.8477
$\frac{15}{16}$	1.13284	184.3655	1.13550	186.6354	1.13814	188.9193
$\frac{31}{32}$	1.13292	184.4362	1.13558	186.7066	1.13822	188.9909
1	1.13301	184.5069	1.13566	186.7778	1.13830	189.0625

13'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.13830	189.0625	1.14093	191.3611	1.14354	193.6736
$\frac{1}{32}$	1.13838	189.1341	1.14101	191.4332	1.14362	193.7461
$\frac{1}{16}$	1.13847	189.2058	1.14109	191.5052	1.14370	193.8186
$\frac{3}{32}$	1.13855	189.2774	1.14117	191.5773	1.14378	193.8911
$\frac{1}{8}$	1.13863	189.3491	1.14125	191.6494	1.14386	193.9637
$\frac{5}{32}$	1.13871	189.4207	1.14134	191.7215	1.14394	194.0362
$\frac{3}{16}$	1.13880	189.4924	1.14142	191.7936	1.14402	194.1088
$\frac{7}{32}$	1.13888	189.5641	1.14150	191.8658	1.14410	194.1813
$\frac{1}{4}$	1.13896	189.6359	1.14158	191.9379	1.14418	194.2539
$\frac{9}{32}$	1.13904	189.7076	1.14166	192.0101	1.14427	194.3265
$\frac{5}{16}$	1.13912	189.7793	1.14174	192.0823	1.14435	194.3991
$\frac{11}{32}$	1.13921	189.8511	1.14183	192.1545	1.14443	194.4717
$\frac{3}{8}$	1.13929	189.9229	1.14191	192.2267	1.14451	194.5444
$\frac{13}{32}$	1.13937	189.9946	1.14199	192.2989	1.14459	194.6170
$\frac{7}{16}$	1.13945	190.0664	1.14207	192.3711	1.14467	194.6897
$\frac{15}{32}$	1.13953	190.1382	1.14215	192.4434	1.14475	194.7624
$\frac{1}{2}$	1.13962	190.2101	1.14223	192.5156	1.14483	194.8351
$\frac{17}{32}$	1.13970	190.2819	1.14231	192.5879	1.14491	194.9078
$\frac{9}{16}$	1.13978	190.3538	1.14240	192.6602	1.14500	194.9805
$\frac{19}{32}$	1.13986	190.4256	1.14248	192.7325	1.14508	195.0532
$\frac{5}{8}$	1.13994	190.4975	1.14256	192.8048	1.14516	195.1260
$\frac{21}{32}$	1.14003	190.5694	1.14264	192.8771	1.14524	195.1987
$\frac{11}{16}$	1.14011	190.6413	1.14272	192.9495	1.14532	195.2715
$\frac{23}{32}$	1.14019	190.7132	1.14280	193.0218	1.14540	195.3443
$\frac{3}{4}$	1.14027	190.7852	1.14288	193.0942	1.14548	195.4171
$\frac{25}{32}$	1.14035	190.8571	1.14297	193.1666	1.14556	195.4899
$\frac{13}{16}$	1.14044	190.9291	1.14305	193.2390	1.14564	195.5627
$\frac{27}{32}$	1.14052	191.0010	1.14313	193.3114	1.14572	195.6356
$\frac{7}{8}$	1.14060	191.0730	1.14321	193.3838	1.14580	195.7084
$\frac{29}{32}$	1.14068	191.1450	1.14329	193.4562	1.14589	195.7813
$\frac{15}{16}$	1.14076	191.2170	1.14337	193.5287	1.14597	195.8542
$\frac{31}{32}$	1.14085	191.2891	1.14345	193.6011	1.14605	195.9271
1	1.14093	191.3611	1.14354	193.6736	1.14613	196.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.14613	196.0000	1.14871	198.3403	1.15127	200.6944
$\frac{1}{32}$	1.14621	196.0729	1.14879	198.4136	1.15135	200.7682
$\frac{1}{16}$	1.14629	196.1459	1.14887	198.4870	1.15143	200.8420
$\frac{3}{32}$	1.14637	196.2188	1.14895	198.5604	1.15151	200.9159
$\frac{1}{8}$	1.14645	196.2918	1.14903	198.6338	1.15159	200.9897
$\frac{5}{32}$	1.14653	196.3648	1.14911	198.7072	1.15167	201.0635
$\frac{3}{16}$	1.14661	196.4377	1.14919	198.7806	1.15175	201.1374
$\frac{7}{32}$	1.14669	196.5107	1.14927	198.8541	1.15183	201.2113
$\frac{1}{4}$	1.14677	196.5838	1.14935	198.9275	1.15191	201.2852
$\frac{9}{32}$	1.14685	196.6568	1.14943	199.0010	1.15199	201.3591
$\frac{5}{16}$	1.14694	196.7298	1.14951	199.0745	1.15207	201.4330
$\frac{11}{32}$	1.14702	196.8029	1.14959	199.1480	1.15214	201.5069
$\frac{3}{8}$	1.14710	196.8760	1.14967	199.2215	1.15222	201.5808
$\frac{13}{32}$	1.14718	196.9491	1.14975	199.2950	1.15230	201.6548
$\frac{7}{16}$	1.14726	197.0222	1.14983	199.3685	1.15238	201.7288
$\frac{15}{32}$	1.14734	197.0953	1.14991	199.4421	1.15246	201.8027
$\frac{1}{2}$	1.14742	197.1684	1.14999	199.5156	1.15254	201.8767
$\frac{17}{32}$	1.14750	197.2415	1.15007	199.5892	1.15262	201.9507
$\frac{9}{16}$	1.14758	197.3147	1.15015	199.6628	1.15270	202.0248
$\frac{19}{32}$	1.14766	197.3879	1.15023	199.7364	1.15278	202.0988
$\frac{5}{8}$	1.14774	197.4610	1.15031	199.8100	1.15286	202.1729
$\frac{21}{32}$	1.14782	197.5342	1.15039	199.8836	1.15294	202.2469
$\frac{11}{16}$	1.14790	197.6074	1.15047	199.9573	1.15302	202.3210
$\frac{23}{32}$	1.14798	197.6807	1.15055	200.0309	1.15310	202.3951
$\frac{3}{4}$	1.14806	197.7539	1.15063	200.1046	1.15318	202.4692
$\frac{25}{32}$	1.14814	197.8272	1.15071	200.1783	1.15326	202.5433
$\frac{13}{16}$	1.14822	197.9004	1.15079	200.2520	1.15334	202.6174
$\frac{27}{32}$	1.14830	197.9737	1.15087	200.3257	1.15342	202.6916
$\frac{7}{8}$	1.14838	198.0470	1.15095	200.3994	1.15350	202.7657
$\frac{29}{32}$	1.14846	198.1203	1.15103	200.4732	1.15358	202.8399
$\frac{15}{16}$	1.14854	198.1936	1.15111	200.5469	1.15366	202.9141
$\frac{31}{32}$	1.14863	198.2669	1.15119	200.6207	1.15374	202.9883
1	1.14871	198.3403	1.15127	200.6944	1.15381	203.0625

14'

Fractions of an Inch.	3"		4		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.15381	203.0625	1.15635	205.4444	1.15886	207.8403
$\frac{1}{32}$	1.15389	203.1367	1.15643	205.5191	1.15894	207.9154
$\frac{1}{16}$	1.15397	203.2110	1.15650	205.5938	1.15902	207.9905
$\frac{3}{32}$	1.15405	203.2852	1.15658	205.6685	1.15910	208.0656
$\frac{1}{8}$	1.15413	203.3595	1.15666	205.7432	1.15918	208.1407
$\frac{5}{32}$	1.15421	203.4338	1.15674	205.8179	1.15926	208.2159
$\frac{3}{16}$	1.15429	203.5081	1.15682	205.8926	1.15934	208.2910
$\frac{7}{32}$	1.15437	203.5824	1.15690	205.9673	1.15941	208.3662
$\frac{1}{4}$	1.15445	203.6567	1.15698	206.0421	1.15949	208.4414
$\frac{9}{32}$	1.15453	203.7310	1.15706	206.1169	1.15957	208.5166
$\frac{5}{16}$	1.15461	203.8054	1.15714	206.1917	1.15965	208.5918
$\frac{11}{32}$	1.15469	203.8797	1.15721	206.2664	1.15973	208.6671
$\frac{3}{8}$	1.15477	203.9541	1.15729	206.3413	1.15981	208.7423
$\frac{13}{32}$	1.15485	204.0285	1.15737	206.4161	1.15988	208.8176
$\frac{7}{16}$	1.15492	204.1029	1.15745	206.4909	1.15996	208.8928
$\frac{15}{32}$	1.15500	204.1773	1.15753	206.5658	1.16004	208.9681
$\frac{1}{2}$	1.15508	204.2517	1.15761	206.6406	1.16012	209.0434
$\frac{17}{32}$	1.15516	204.3262	1.15769	206.7155	1.16020	209.1187
$\frac{9}{16}$	1.15524	204.4006	1.15777	206.7904	1.16027	209.1940
$\frac{19}{32}$	1.15532	204.4751	1.15784	206.8653	1.16035	209.2694
$\frac{5}{8}$	1.15540	204.5496	1.15792	206.9402	1.16043	209.3447
$\frac{21}{32}$	1.15548	204.6241	1.15800	207.0151	1.16051	209.4201
$\frac{11}{16}$	1.15556	204.6986	1.15808	207.0901	1.16059	209.4955
$\frac{23}{32}$	1.15564	204.7731	1.15816	207.1650	1.16067	209.5709
$\frac{3}{4}$	1.15572	204.8477	1.15824	207.2400	1.16074	209.6463
$\frac{25}{32}$	1.15579	204.9222	1.15832	207.3150	1.16082	209.7217
$\frac{13}{16}$	1.15587	204.9968	1.15839	207.3900	1.16090	209.7971
$\frac{27}{32}$	1.15595	205.0714	1.15847	207.4650	1.16098	209.8726
$\frac{7}{8}$	1.15603	205.1459	1.15855	207.5400	1.16106	209.9480
$\frac{29}{32}$	1.15611	205.2205	1.15863	207.6151	1.16113	210.0235
$\frac{15}{16}$	1.15619	205.2952	1.15871	207.6901	1.16121	210.0990
$\frac{31}{32}$	1.15627	205.3698	1.15879	207.7652	1.16129	210.1745
1	1.15635	205.4444	1.15886	207.8403	1.16137	210.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.16137	210.2500	1.16386	212.6736	1.16633	215.1111
$\frac{1}{32}$	1.16145	210.3255	1.16393	212.7496	1.16641	215.1875
$\frac{1}{16}$	1.16152	210.4011	1.16401	212.8255	1.16649	215.2639
$\frac{3}{32}$	1.16160	210.4766	1.16409	212.9015	1.16656	215.3403
$\frac{1}{8}$	1.16168	210.5522	1.16417	212.9775	1.16664	215.4168
$\frac{5}{32}$	1.16176	210.6278	1.16424	213.0536	1.16672	215.4932
$\frac{3}{16}$	1.16184	210.7034	1.16432	213.1296	1.16679	215.5697
$\frac{7}{32}$	1.16191	210.7790	1.16440	213.2056	1.16687	215.6462
$\frac{1}{4}$	1.16199	210.8546	1.16448	213.2817	1.16695	215.7227
$\frac{9}{32}$	1.16207	210.9302	1.16455	213.3578	1.16702	215.7992
$\frac{5}{16}$	1.16215	211.0059	1.16463	213.4338	1.16710	215.8757
$\frac{11}{32}$	1.16223	211.0815	1.16471	213.5099	1.16718	215.9522
$\frac{3}{8}$	1.16230	211.1572	1.16479	213.5860	1.16726	216.0288
$\frac{13}{32}$	1.16238	211.2329	1.16486	213.6622	1.16733	216.1053
$\frac{7}{16}$	1.16246	211.3086	1.16494	213.7383	1.16741	216.1819
$\frac{15}{32}$	1.16254	211.3843	1.16502	213.8145	1.16749	216.2585
$\frac{1}{2}$	1.16261	211.4601	1.16510	213.8906	1.16756	216.3351
$\frac{17}{32}$	1.16269	211.5358	1.16517	213.9668	1.16764	216.4117
$\frac{9}{16}$	1.16277	211.6116	1.16525	214.0430	1.16772	216.4883
$\frac{19}{32}$	1.16285	211.6873	1.16533	214.1192	1.16779	216.5649
$\frac{5}{8}$	1.16293	211.7631	1.16541	214.1954	1.16787	216.6416
$\frac{21}{32}$	1.16300	211.8389	1.16548	214.2717	1.16795	216.7183
$\frac{11}{16}$	1.16308	211.9147	1.16556	214.3479	1.16802	216.7949
$\frac{23}{32}$	1.16316	211.9906	1.16564	214.4242	1.16810	216.8716
$\frac{3}{4}$	1.16324	212.0664	1.16571	214.5004	1.16818	216.9484
$\frac{25}{32}$	1.16331	212.1423	1.16579	214.5767	1.16825	217.0251
$\frac{13}{16}$	1.16339	212.2181	1.16587	214.6530	1.16833	217.1018
$\frac{27}{32}$	1.16347	212.2940	1.16595	214.7293	1.16841	217.1786
$\frac{7}{8}$	1.16355	212.3699	1.16602	214.8057	1.16849	217.2553
$\frac{29}{32}$	1.16362	212.4458	1.16610	214.8820	1.16856	217.3321
$\frac{15}{16}$	1.16370	212.5217	1.16618	214.9584	1.16864	217.4089
$\frac{31}{32}$	1.16378	212.5977	1.16625	215.0347	1.16872	217.4857
1	1.16386	212.6736	1.16633	215.1111	1.16879	217.5625

14'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.16879	217.5625	1.17124	220.0278	1.17367	222.5069
$\frac{1}{32}$	1.16887	217.6393	1.17131	220.1050	1.17375	222.5846
$\frac{1}{16}$	1.16895	217.7162	1.17139	220.1823	1.17382	222.6624
$\frac{3}{32}$	1.16902	217.7930	1.17147	220.2596	1.17390	222.7401
$\frac{1}{8}$	1.16910	217.8699	1.17154	220.3369	1.17397	222.8178
$\frac{5}{32}$	1.16918	217.9468	1.17162	220.4142	1.17405	222.8956
$\frac{3}{16}$	1.16925	218.0237	1.17170	220.4916	1.17413	222.9733
$\frac{7}{32}$	1.16933	218.1006	1.17177	220.5689	1.17420	223.0511
$\frac{1}{4}$	1.16940	218.1775	1.17185	220.6463	1.17428	223.1289
$\frac{9}{32}$	1.16948	218.2545	1.17192	220.7236	1.17435	223.2067
$\frac{5}{16}$	1.16956	218.3314	1.17200	220.8010	1.17443	223.2845
$\frac{11}{32}$	1.16963	218.4084	1.17208	220.8784	1.17451	223.3624
$\frac{3}{8}$	1.16971	218.4854	1.17215	220.9558	1.17458	223.4402
$\frac{13}{32}$	1.16979	218.5623	1.17223	221.0333	1.17466	223.5181
$\frac{7}{16}$	1.16986	218.6393	1.17230	221.1107	1.17473	223.5959
$\frac{15}{32}$	1.16994	218.7164	1.17238	221.1882	1.17481	223.6738
$\frac{1}{2}$	1.17002	218.7934	1.17246	221.2656	1.17488	223.7517
$\frac{17}{32}$	1.17009	218.8704	1.17253	221.3431	1.17496	223.8297
$\frac{9}{16}$	1.17017	218.9475	1.17261	221.4206	1.17503	223.9076
$\frac{19}{32}$	1.17025	219.0246	1.17269	221.4981	1.17511	223.9855
$\frac{5}{8}$	1.17032	219.1017	1.17276	221.5756	1.17519	224.0635
$\frac{21}{32}$	1.17040	219.1788	1.17284	221.6532	1.17526	224.1414
$\frac{11}{16}$	1.17048	219.2559	1.17291	221.7307	1.17534	224.2194
$\frac{23}{32}$	1.17055	219.3330	1.17299	221.8083	1.17541	224.2974
$\frac{3}{4}$	1.17063	219.4102	1.17306	221.8859	1.17549	224.3754
$\frac{25}{32}$	1.17070	219.4873	1.17314	221.9634	1.17556	224.4535
$\frac{13}{16}$	1.17078	219.5645	1.17322	222.0410	1.17564	224.5315
$\frac{27}{32}$	1.17086	219.6417	1.17329	222.1187	1.17571	224.6095
$\frac{7}{8}$	1.17093	219.7189	1.17337	222.1963	1.17579	224.6876
$\frac{29}{32}$	1.17101	219.7961	1.17344	222.2739	1.17587	224.7657
$\frac{15}{16}$	1.17109	219.8733	1.17352	222.3516	1.17594	224.8438
$\frac{31}{32}$	1.17116	219.9505	1.17360	222.4293	1.17602	224.9219
1	1.17124	220.0278	1.17367	222.5069	1.17609	225.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.17609	225.0000	1.17850	227.5069	1.18089	230.0278
$\frac{1}{32}$	1.17617	225.0781	1.17857	227.5855	1.18096	230.1068
$\frac{1}{16}$	1.17624	225.1563	1.17865	227.6641	1.18104	230.1858
$\frac{3}{32}$	1.17632	225.2344	1.17872	227.7427	1.18111	230.2648
$\frac{1}{8}$	1.17639	225.3126	1.17880	227.8213	1.18119	230.3439
$\frac{5}{32}$	1.17647	225.3908	1.17887	227.8999	1.18126	230.4229
$\frac{3}{16}$	1.17654	225.4690	1.17895	227.9785	1.18134	230.5020
$\frac{7}{32}$	1.17662	225.5472	1.17902	228.0572	1.18141	230.5811
$\frac{1}{4}$	1.17669	225.6254	1.17910	228.1359	1.18149	230.6602
$\frac{9}{32}$	1.17677	225.7037	1.17917	228.2145	1.18156	230.7393
$\frac{5}{16}$	1.17684	225.7819	1.17925	228.2932	1.18164	230.8184
$\frac{11}{32}$	1.17692	225.8602	1.17932	228.3719	1.18171	230.8975
$\frac{3}{8}$	1.17700	225.9385	1.17940	228.4506	1.18178	230.9767
$\frac{13}{32}$	1.17707	226.0168	1.17947	228.5294	1.18186	231.0558
$\frac{7}{16}$	1.17715	226.0951	1.17955	228.6081	1.18193	231.1350
$\frac{15}{32}$	1.17722	226.1734	1.17962	228.6869	1.18201	231.2142
$\frac{1}{2}$	1.17730	226.2517	1.17970	228.7656	1.18208	231.2934
$\frac{17}{32}$	1.17737	226.3301	1.17977	228.8444	1.18216	231.3726
$\frac{9}{16}$	1.17745	226.4084	1.17984	228.9232	1.18223	231.4519
$\frac{19}{32}$	1.17752	226.4868	1.17992	229.0020	1.18230	231.5311
$\frac{5}{8}$	1.17760	226.5652	1.17999	229.0808	1.18238	231.6104
$\frac{21}{32}$	1.17767	226.6436	1.18007	229.1597	1.18245	231.6896
$\frac{11}{16}$	1.17775	226.7220	1.18014	229.2385	1.18253	231.7689
$\frac{23}{32}$	1.17782	226.8005	1.18022	229.3174	1.18260	231.8482
$\frac{3}{4}$	1.17790	226.8789	1.18029	229.3963	1.18268	231.9275
$\frac{25}{32}$	1.17797	226.9574	1.18037	229.4752	1.18275	232.0068
$\frac{13}{16}$	1.17805	227.0358	1.18044	229.5541	1.18282	232.0862
$\frac{27}{32}$	1.17812	227.1143	1.18052	229.6330	1.18290	232.1655
$\frac{7}{8}$	1.17820	227.1928	1.18059	229.7119	1.18297	232.2449
$\frac{29}{32}$	1.17827	227.2713	1.18067	229.7909	1.18305	232.3243
$\frac{15}{16}$	1.17835	227.3499	1.18074	229.8698	1.18312	232.4037
$\frac{31}{32}$	1.17842	227.4284	1.18082	229.9488	1.18320	232.4831
1	1.17850	227.5069	1.18089	230.0278	1.18327	232.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.18327	232.5625	1.18564	235.1111	1.18799	237.6736
$\frac{1}{32}$	1.18334	232.6419	1.18571	235.1910	1.18806	237.7539
$\frac{1}{16}$	1.18342	232.7214	1.18578	235.2709	1.18814	237.8342
$\frac{3}{32}$	1.18349	232.8008	1.18586	235.3508	1.18821	237.9146
$\frac{1}{8}$	1.18357	232.8803	1.18593	235.4307	1.18828	237.9949
$\frac{5}{32}$	1.18364	232.9598	1.18601	235.5106	1.18836	238.0753
$\frac{3}{16}$	1.18371	233.0393	1.18608	235.5905	1.18843	238.1556
$\frac{7}{32}$	1.18379	233.1188	1.18615	235.6705	1.18850	238.2360
$\frac{1}{4}$	1.18386	233.1984	1.18623	235.7504	1.18858	238.3164
$\frac{9}{32}$	1.18394	233.2779	1.18630	235.8304	1.18865	238.3968
$\frac{5}{16}$	1.18401	233.3574	1.18637	235.9104	1.18872	238.4772
$\frac{11}{32}$	1.18408	233.4370	1.18645	235.9904	1.18880	238.5577
$\frac{3}{8}$	1.18416	233.5166	1.18652	236.0704	1.18887	238.6381
$\frac{13}{32}$	1.18423	233.5962	1.18659	236.1505	1.18894	238.7186
$\frac{7}{16}$	1.18431	233.6758	1.18667	236.2305	1.18902	238.7991
$\frac{15}{32}$	1.18438	233.7554	1.18674	236.3106	1.18909	238.8796
$\frac{1}{2}$	1.18445	233.8351	1.18682	236.3906	1.18916	238.9601
$\frac{17}{32}$	1.18453	233.9147	1.18689	236.4707	1.18924	239.0406
$\frac{9}{16}$	1.18460	233.9944	1.18696	236.5508	1.18931	239.1211
$\frac{19}{32}$	1.18468	234.0741	1.18704	236.6309	1.18938	239.2017
$\frac{5}{8}$	1.18475	234.1538	1.18711	236.7110	1.18946	239.2822
$\frac{21}{32}$	1.18482	234.2335	1.18718	236.7912	1.18953	239.3628
$\frac{11}{16}$	1.18490	234.3132	1.18726	236.8713	1.18960	239.4434
$\frac{23}{32}$	1.18497	234.3929	1.18733	236.9515	1.18967	239.5240
$\frac{3}{4}$	1.18505	234.4727	1.18740	237.0317	1.18975	239.6046
$\frac{25}{32}$	1.18512	234.5524	1.18748	237.1119	1.18982	239.6852
$\frac{13}{16}$	1.18519	234.6322	1.18755	237.1921	1.18989	239.7659
$\frac{27}{32}$	1.18527	234.7120	1.18762	237.2723	1.18997	239.8465
$\frac{7}{8}$	1.18534	234.7918	1.18770	237.3525	1.19004	239.9272
$\frac{29}{32}$	1.18542	234.8716	1.18777	237.4328	1.19011	240.0079
$\frac{15}{16}$	1.18549	234.9514	1.18784	237.5130	1.19019	240.0886
$\frac{31}{32}$	1.18556	235.0313	1.18792	237.5933	1.19026	240.1693
1	1.18564	235.1111	1.18799	237.6736	1.19033	240.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.19033	240.2500	1.19266	242.8403	1.19498	245.4444
$\frac{1}{32}$	1.19040	240.3307	1.19273	242.9214	1.19505	245.5260
$\frac{1}{16}$	1.19048	240.4115	1.19281	243.0026	1.19512	245.6077
$\frac{3}{32}$	1.19055	240.4922	1.19288	243.0838	1.19519	245.6893
$\frac{1}{8}$	1.19062	240.5730	1.19295	243.1650	1.19527	245.7709
$\frac{5}{32}$	1.19070	240.6538	1.19302	243.2463	1.19534	245.8526
$\frac{3}{16}$	1.19077	240.7346	1.19310	243.3275	1.19541	245.9343
$\frac{7}{32}$	1.19084	240.8154	1.19317	243.4088	1.19548	246.0160
$\frac{1}{4}$	1.19092	240.8963	1.19324	243.4900	1.19555	246.0977
$\frac{9}{32}$	1.19099	240.9771	1.19331	243.5713	1.19563	246.1794
$\frac{5}{16}$	1.19106	241.0580	1.19339	243.6526	1.19570	246.2611
$\frac{11}{32}$	1.19113	241.1388	1.19346	243.7339	1.19577	246.3428
$\frac{3}{8}$	1.19121	241.2197	1.19353	243.8152	1.19584	246.4246
$\frac{13}{32}$	1.19128	241.3006	1.19360	243.8965	1.19591	246.5064
$\frac{7}{16}$	1.19135	241.3815	1.19368	243.9779	1.19599	246.5881
$\frac{15}{32}$	1.19142	241.4625	1.19375	244.0593	1.19606	246.6699
$\frac{1}{2}$	1.19150	241.5434	1.19382	244.1406	1.19613	246.7517
$\frac{17}{32}$	1.19157	241.6244	1.19389	244.2220	1.19620	246.8336
$\frac{9}{16}$	1.19164	241.7053	1.19396	244.3034	1.19627	246.9154
$\frac{19}{32}$	1.19172	241.7863	1.19404	244.3848	1.19635	246.9972
$\frac{5}{8}$	1.19179	241.8673	1.19411	244.4663	1.19642	247.0791
$\frac{21}{32}$	1.19186	241.9483	1.19418	244.5477	1.19649	247.1610
$\frac{11}{16}$	1.19193	242.0293	1.19425	244.6292	1.19656	247.2429
$\frac{23}{32}$	1.19201	242.1104	1.19433	244.7106	1.19663	247.3248
$\frac{3}{4}$	1.19208	242.1914	1.19440	244.7921	1.19671	247.4067
$\frac{25}{32}$	1.19215	242.2725	1.19447	244.8736	1.19678	247.4886
$\frac{13}{16}$	1.19222	242.3535	1.19454	244.9551	1.19685	247.5706
$\frac{27}{32}$	1.19230	242.4346	1.19462	245.0366	1.19692	247.6525
$\frac{7}{8}$	1.19237	242.5157	1.19469	245.1182	1.19699	247.7345
$\frac{29}{32}$	1.19244	242.5968	1.19476	245.1997	1.19707	247.8165
$\frac{15}{16}$	1.19252	242.6780	1.19483	245.2813	1.19714	247.8985
$\frac{31}{32}$	1.19259	242.7591	1.19490	245.3629	1.19721	247.9805
1	1.19266	242.8403	1.19498	245.4444	1.19728	248.0625

15'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.19728	248.0625	1.19957	250.6944	1.20185	253.3403
$\frac{1}{32}$	1.19735	248.1445	1.19964	250.7769	1.20192	253.4232
$\frac{1}{16}$	1.19742	248.2266	1.19972	250.8594	1.20199	253.5061
$\frac{3}{32}$	1.19750	248.3087	1.19979	250.9419	1.20207	253.5890
$\frac{1}{8}$	1.19757	248.3907	1.19986	251.0244	1.20214	253.6720
$\frac{5}{32}$	1.19764	248.4728	1.19993	251.1069	1.20221	253.7549
$\frac{3}{16}$	1.19771	248.5549	1.20000	251.1895	1.20228	253.8379
$\frac{7}{32}$	1.19778	248.6371	1.20007	251.2720	1.20235	253.9209
$\frac{1}{4}$	1.19785	248.7192	1.20014	251.3546	1.20242	254.0039
$\frac{9}{32}$	1.19793	248.8013	1.20021	251.4372	1.20249	254.0869
$\frac{5}{16}$	1.19800	248.8835	1.20029	251.5198	1.20256	254.1699
$\frac{11}{32}$	1.19807	248.9657	1.20036	251.6024	1.20263	254.2530
$\frac{3}{8}$	1.19814	249.0479	1.20043	251.6850	1.20270	254.3360
$\frac{13}{32}$	1.19821	249.1301	1.20050	251.7676	1.20277	254.4191
$\frac{7}{16}$	1.19828	249.2123	1.20057	251.8503	1.20285	254.5022
$\frac{15}{32}$	1.19836	249.2945	1.20064	251.9329	1.20292	254.5853
$\frac{1}{2}$	1.19843	249.3767	1.20071	252.0156	1.20299	254.6684
$\frac{17}{32}$	1.19850	249.4590	1.20078	252.0983	1.20306	254.7515
$\frac{9}{16}$	1.19857	249.5413	1.20086	252.1810	1.20313	254.8347
$\frac{19}{32}$	1.19864	249.6235	1.20093	252.2637	1.20320	254.9178
$\frac{5}{8}$	1.19871	249.7058	1.20100	252.3465	1.20327	255.0010
$\frac{21}{32}$	1.19879	249.7881	1.20107	252.4292	1.20334	255.0842
$\frac{11}{16}$	1.19886	249.8705	1.20114	252.5120	1.20341	255.1673
$\frac{23}{32}$	1.19893	249.9528	1.20121	252.5947	1.20348	255.2505
$\frac{3}{4}$	1.19900	250.0352	1.20128	252.6775	1.20355	255.3338
$\frac{25}{32}$	1.19907	250.1175	1.20135	252.7603	1.20362	255.4170
$\frac{13}{16}$	1.19914	250.1999	1.20143	252.8431	1.20370	255.5002
$\frac{27}{32}$	1.19922	250.2823	1.20150	252.9260	1.20377	255.5835
$\frac{7}{8}$	1.19929	250.3647	1.20157	253.0088	1.20384	255.6668
$\frac{29}{32}$	1.19936	250.4471	1.20164	253.0916	1.20391	255.7501
$\frac{15}{16}$	1.19943	250.5295	1.20171	253.1745	1.20398	255.8334
$\frac{31}{32}$	1.19950	250.6120	1.20178	253.2574	1.20405	255.9167
1	1.19957	250.6944	1.20185	253.3403	1.20412	256.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.20412	256.0000	1.20638	258.6736	1.20862	261.3611
$\frac{1}{32}$	1.20419	256.0833	1.20645	258.7574	1.20869	261.4453
$\frac{1}{16}$	1.20426	256.1667	1.20652	258.8412	1.20876	261.5295
$\frac{3}{32}$	1.20433	256.2501	1.20659	258.9250	1.20883	261.6138
$\frac{1}{8}$	1.20440	256.3334	1.20666	259.0088	1.20890	261.6980
$\frac{5}{32}$	1.20447	256.4168	1.20673	259.0926	1.20897	261.7823
$\frac{3}{16}$	1.20454	256.5002	1.20680	259.1765	1.20904	261.8666
$\frac{7}{32}$	1.20461	256.5837	1.20687	259.2603	1.20911	261.9509
$\frac{1}{4}$	1.20469	256.6671	1.20694	259.3442	1.20918	262.0352
$\frac{9}{32}$	1.20476	256.7505	1.20701	259.4281	1.20925	262.1195
$\frac{5}{16}$	1.20483	256.8340	1.20708	259.5120	1.20932	262.2038
$\frac{11}{32}$	1.20490	256.9175	1.20715	259.5959	1.20939	262.2881
$\frac{3}{8}$	1.20497	257.0010	1.20722	259.6798	1.20946	262.3725
$\frac{13}{32}$	1.20504	257.0845	1.20729	259.7637	1.20953	262.4569
$\frac{7}{16}$	1.20511	257.1680	1.20736	259.8477	1.20960	262.5413
$\frac{15}{32}$	1.20518	257.2515	1.20743	259.9316	1.20967	262.6257
$\frac{1}{2}$	1.20525	257.3351	1.20750	260.0156	1.20974	262.7101
$\frac{17}{32}$	1.20532	257.4186	1.20757	260.0996	1.20981	262.7945
$\frac{9}{16}$	1.20539	257.5022	1.20764	260.1836	1.20988	262.8789
$\frac{19}{32}$	1.20546	257.5858	1.20771	260.2676	1.20995	262.9634
$\frac{5}{8}$	1.20553	257.6694	1.20778	260.3517	1.21002	263.0479
$\frac{21}{32}$	1.20560	257.7530	1.20785	260.4357	1.21009	263.1323
$\frac{11}{16}$	1.20567	257.8366	1.20792	260.5198	1.21016	263.2168
$\frac{23}{32}$	1.20574	257.9203	1.20799	260.6038	1.21023	263.3013
$\frac{3}{4}$	1.20581	258.0039	1.20806	260.6879	1.21030	263.3859
$\frac{25}{32}$	1.20588	258.0876	1.20813	260.7720	1.21037	263.4704
$\frac{13}{16}$	1.20595	258.1713	1.20820	260.8561	1.21044	263.5549
$\frac{27}{32}$	1.20602	258.2549	1.20827	260.9403	1.21051	263.6395
$\frac{7}{8}$	1.20609	258.3386	1.20834	261.0244	1.21057	263.7241
$\frac{29}{32}$	1.20617	258.4224	1.20841	261.1086	1.21064	263.8087
$\frac{15}{16}$	1.20624	258.5061	1.20848	261.1927	1.21071	263.8933
$\frac{31}{32}$	1.20631	258.5899	1.20855	261.2769	1.21078	263.9779
1	1.20638	258.6736	1.20862	261.3611	1.21085	264.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.21085	264.0625	1.21307	266.7778	1.21528	269.5069
$\frac{1}{32}$	1.21092	264.1471	1.21314	266.8629	1.21535	269.5925
$\frac{1}{16}$	1.21099	264.2318	1.21321	266.9479	1.21542	269.6780
$\frac{3}{32}$	1.21106	264.3165	1.21328	267.0330	1.21549	269.7635
$\frac{1}{8}$	1.21113	264.4012	1.21335	267.1182	1.21556	269.8491
$\frac{5}{32}$	1.21120	264.4858	1.21342	267.2033	1.21563	269.9346
$\frac{3}{16}$	1.21127	264.5706	1.21349	267.2884	1.21570	270.0202
$\frac{7}{32}$	1.21134	264.6553	1.21356	267.3736	1.21577	270.1058
$\frac{1}{4}$	1.21141	264.7400	1.21363	267.4588	1.21584	270.1914
$\frac{9}{32}$	1.21148	264.8248	1.21370	267.5440	1.21590	270.2770
$\frac{5}{16}$	1.21155	264.9095	1.21377	267.6292	1.21597	270.3627
$1\frac{1}{32}$	1.21162	264.9943	1.21384	267.7144	1.21604	270.4483
$\frac{3}{8}$	1.21169	265.0791	1.21390	267.7996	1.21611	270.5340
$1\frac{3}{32}$	1.21176	265.1639	1.21397	267.8848	1.21618	270.6196
$\frac{7}{16}$	1.21183	265.2487	1.21404	267.9701	1.21625	270.7053
$1\frac{5}{32}$	1.21190	265.3336	1.21411	268.0553	1.21632	270.7910
$\frac{1}{2}$	1.21197	265.4184	1.21418	268.1406	1.21639	270.8767
$1\frac{7}{32}$	1.21203	265.5033	1.21425	268.2259	1.21645	270.9625
$\frac{9}{16}$	1.21210	265.5881	1.21432	268.3112	1.21652	271.0482
$1\frac{9}{32}$	1.21217	265.6730	1.21439	268.3965	1.21659	271.1340
$\frac{5}{8}$	1.21224	265.7579	1.21446	268.4819	1.21666	271.2197
$2\frac{1}{32}$	1.21231	265.8428	1.21453	268.5672	1.21673	271.3055
$1\frac{1}{16}$	1.21238	265.9278	1.21460	268.6526	1.21680	271.3913
$2\frac{3}{32}$	1.21245	266.0127	1.21466	268.7380	1.21687	271.4771
$\frac{3}{4}$	1.21252	266.0977	1.21473	268.8234	1.21694	271.5629
$2\frac{5}{32}$	1.21259	266.1826	1.21480	268.9088	1.21700	271.6488
$1\frac{3}{16}$	1.21266	266.2676	1.21487	268.9942	1.21707	271.7346
$2\frac{7}{32}$	1.21273	266.3526	1.21494	269.0796	1.21714	271.8205
$\frac{7}{8}$	1.21280	266.4376	1.21501	269.1650	1.21721	271.9064
$2\frac{9}{32}$	1.21287	266.5226	1.21508	269.2505	1.21728	271.9922
$1\frac{5}{16}$	1.21294	266.6077	1.21515	269.3360	1.21735	272.0782
$2\frac{11}{32}$	1.21301	266.6927	1.21522	269.4214	1.21742	272.1641
1	1.21307	266.7778	1.21528	269.5069	1.21748	272.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.21748	272.2500	1.21967	275.0069	1.22185	277.7778
$\frac{1}{32}$	1.21755	272.3359	1.21974	275.0933	1.22192	277.8646
$\frac{1}{16}$	1.21762	272.4219	1.21981	275.1797	1.22198	277.9514
$\frac{3}{32}$	1.21769	272.5079	1.21988	275.2661	1.22205	278.0383
$\frac{1}{8}$	1.21776	272.5939	1.21994	275.3525	1.22212	278.1251
$\frac{5}{32}$	1.21783	272.6799	1.22001	275.4390	1.22219	278.2120
$\frac{3}{16}$	1.21790	272.7659	1.22008	275.5254	1.22226	278.2989
$\frac{7}{32}$	1.21796	272.8519	1.22015	275.6119	1.22232	278.3857
$\frac{1}{4}$	1.21803	272.9379	1.22022	275.6984	1.22239	278.4727
$\frac{9}{32}$	1.21810	273.0240	1.22029	275.7848	1.22246	278.5596
$\frac{5}{16}$	1.21817	273.1101	1.22035	275.8713	1.22253	278.6465
$\frac{11}{32}$	1.21824	273.1961	1.22042	275.9579	1.22259	278.7335
$\frac{3}{8}$	1.21831	273.2822	1.22049	276.0444	1.22266	278.8204
$\frac{13}{32}$	1.21837	273.3683	1.22056	276.1309	1.22273	278.9074
$\frac{7}{16}$	1.21844	273.4545	1.22063	276.2175	1.22280	278.9944
$\frac{15}{32}$	1.21851	273.5406	1.22069	276.3040	1.22287	279.0814
$\frac{1}{2}$	1.21858	273.6267	1.22076	276.3906	1.22293	279.1684
$\frac{17}{32}$	1.21865	273.7129	1.22083	276.4772	1.22300	279.2554
$\frac{9}{16}$	1.21872	273.7991	1.22090	276.5638	1.22307	279.3425
$\frac{19}{32}$	1.21878	273.8853	1.22097	276.6505	1.22314	279.4295
$\frac{5}{8}$	1.21885	273.9715	1.22103	276.7371	1.22320	279.5166
$\frac{21}{32}$	1.21892	274.0577	1.22110	276.8237	1.22327	279.6037
$\frac{11}{16}$	1.21899	274.1439	1.22117	276.9104	1.22334	279.6908
$\frac{23}{32}$	1.21906	274.2302	1.22124	276.9971	1.22341	279.7779
$\frac{3}{4}$	1.21913	274.3164	1.22131	277.0838	1.22347	279.8650
$\frac{25}{32}$	1.21919	274.4027	1.22137	277.1705	1.22354	279.9522
$\frac{13}{16}$	1.21926	274.4890	1.22144	277.2572	1.22361	280.0393
$\frac{27}{32}$	1.21933	274.5753	1.22151	277.3439	1.22368	280.1265
$\frac{7}{8}$	1.21940	274.6616	1.22158	277.4307	1.22374	280.2137
$\frac{29}{32}$	1.21947	274.7479	1.22165	277.5174	1.22381	280.3008
$\frac{15}{16}$	1.21954	274.8342	1.22171	277.6042	1.22388	280.3880
$\frac{31}{32}$	1.21960	274.9206	1.22178	277.6910	1.22395	280.4753
1	1.21967	275.0069	1.22185	277.7778	1.22401	280.5625

16'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.22401	280.5625	1.22617	283.3611	1.22831	286.1736
$\frac{1}{32}$	1.22408	280.6497	1.22624	283.4488	1.22838	286.2617
$\frac{1}{16}$	1.22415	280.7370	1.22630	283.5365	1.22845	286.3499
$\frac{3}{32}$	1.22422	280.8243	1.22637	283.6242	1.22852	286.4380
$\frac{1}{8}$	1.22428	280.9116	1.22644	283.7119	1.22858	286.5262
$\frac{5}{32}$	1.22435	280.9989	1.22651	283.7996	1.22865	286.6143
$\frac{3}{16}$	1.22442	281.0862	1.22657	283.8874	1.22872	286.7025
$\frac{7}{32}$	1.22449	281.1735	1.22664	283.9752	1.22878	286.7907
$\frac{1}{4}$	1.22455	281.2609	1.22671	284.0629	1.22885	286.8789
$\frac{9}{32}$	1.22462	281.3482	1.22677	284.1507	1.22892	286.9671
$\frac{5}{16}$	1.22469	281.4356	1.22684	284.2385	1.22898	287.0554
$\frac{11}{32}$	1.22476	281.5230	1.22691	284.3263	1.22905	287.1436
$\frac{3}{8}$	1.22482	281.6104	1.22698	284.4142	1.22912	287.2319
$\frac{13}{32}$	1.22489	281.6978	1.22704	284.5020	1.22918	287.3202
$\frac{7}{16}$	1.22496	281.7852	1.22711	284.5899	1.22925	287.4084
$\frac{15}{32}$	1.22503	281.8726	1.22718	284.6777	1.22932	287.4968
$\frac{1}{2}$	1.22509	281.9601	1.22724	284.7656	1.22938	287.5851
$\frac{17}{32}$	1.22516	282.0475	1.22731	284.8535	1.22945	287.6734
$\frac{9}{16}$	1.22523	282.1350	1.22738	284.9414	1.22952	287.7617
$\frac{19}{32}$	1.22530	282.2225	1.22744	285.0294	1.22958	287.8501
$\frac{5}{8}$	1.22536	282.3100	1.22751	285.1173	1.22965	287.9385
$\frac{21}{32}$	1.22543	282.3975	1.22758	285.2052	1.22972	288.0269
$\frac{11}{16}$	1.22550	282.4851	1.22765	285.2932	1.22978	288.1153
$\frac{23}{32}$	1.22557	282.5726	1.22771	285.3812	1.22985	288.2037
$\frac{3}{4}$	1.22563	282.6602	1.22778	285.4692	1.22992	288.2921
$\frac{25}{32}$	1.22570	282.7477	1.22785	285.5572	1.22998	288.3805
$\frac{13}{16}$	1.22577	282.8353	1.22791	285.6452	1.23005	288.4690
$\frac{27}{32}$	1.22583	282.9229	1.22798	285.7332	1.23012	288.5575
$\frac{7}{8}$	1.22590	283.0105	1.22805	285.8213	1.23018	288.6459
$\frac{29}{32}$	1.22597	283.0982	1.22811	285.9093	1.23025	288.7344
$\frac{15}{16}$	1.22604	283.1858	1.22818	285.9974	1.23032	288.8229
$\frac{31}{32}$	1.22610	283.2734	1.22825	286.0855	1.23038	288.9115
1	1.22617	283.3611	1.22831	286.1736	1.23045	289.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.23045	289.0000	1.23257	291.8403	1.23469	294.6944
$\frac{1}{32}$	1.23052	289.0885	1.23264	291.9293	1.23475	294.7839
$\frac{1}{16}$	1.23058	289.1771	1.23271	292.0183	1.23482	294.8733
$\frac{3}{32}$	1.23065	289.2657	1.23277	292.1073	1.23488	294.9627
$\frac{1}{8}$	1.23071	289.3543	1.23284	292.1963	1.23495	295.0522
$\frac{5}{32}$	1.23078	289.4429	1.23290	292.2853	1.23502	295.1417
$\frac{3}{16}$	1.23085	289.5315	1.23297	292.3744	1.23508	295.2311
$\frac{7}{32}$	1.23091	289.6201	1.23304	292.4634	1.23515	295.3206
$\frac{1}{4}$	1.23098	289.7088	1.23310	292.5525	1.23521	295.4102
$\frac{9}{32}$	1.23105	289.7974	1.23317	292.6416	1.23528	295.4997
$\frac{5}{16}$	1.23111	289.8861	1.23323	292.7307	1.23534	295.5892
$\frac{11}{32}$	1.23118	289.9748	1.23330	292.8198	1.23541	295.6788
$\frac{3}{8}$	1.23125	290.0635	1.23337	292.9090	1.23548	295.7683
$\frac{13}{32}$	1.23131	290.1522	1.23343	292.9981	1.23554	295.8579
$\frac{7}{16}$	1.23138	290.2409	1.23350	293.0873	1.23561	295.9475
$\frac{15}{32}$	1.23145	290.3297	1.23356	293.1764	1.23567	296.0371
$\frac{1}{2}$	1.23151	290.4184	1.23363	293.2656	1.23574	296.1267
$\frac{17}{32}$	1.23158	290.5072	1.23370	293.3548	1.23580	296.2164
$\frac{9}{16}$	1.23164	290.5959	1.23376	293.4440	1.23587	296.3060
$\frac{19}{32}$	1.23171	290.6847	1.23383	293.5333	1.23594	296.3957
$\frac{5}{8}$	1.23178	290.7735	1.23389	293.6225	1.23600	296.4854
$\frac{21}{32}$	1.23184	290.8624	1.23396	293.7118	1.23607	296.5750
$\frac{11}{16}$	1.23191	290.9512	1.23403	293.8010	1.23613	296.6647
$\frac{23}{32}$	1.23198	291.0400	1.23409	293.8903	1.23620	296.7545
$\frac{3}{4}$	1.23204	291.1289	1.23416	293.9796	1.23626	296.8442
$\frac{25}{32}$	1.23211	291.2178	1.23422	294.0689	1.23633	296.9339
$\frac{13}{16}$	1.23218	291.3067	1.23429	294.1582	1.23640	297.0237
$\frac{27}{32}$	1.23224	291.3956	1.23436	294.2476	1.23646	297.1135
$\frac{7}{8}$	1.23231	291.4845	1.23442	294.3369	1.23653	297.2032
$\frac{29}{32}$	1.23237	291.5734	1.23449	294.4263	1.23659	297.2930
$\frac{15}{16}$	1.23244	291.6624	1.23455	294.5157	1.23666	297.3828
$\frac{31}{32}$	1.23251	291.7513	1.23462	294.6050	1.23672	297.4727
1	1.23257	291.8403	1.23469	294.6944	1.23679	297.5625

Fractions of an Inch.	3"		4		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.23679	297.5625	1.23888	300.4444	1.24097	303.3403
$\frac{1}{32}$	1.23685	297.6524	1.23895	300.5347	1.24103	303.4310
$\frac{1}{16}$	1.23692	297.7422	1.23901	300.6250	1.24109	303.5217
$\frac{3}{32}$	1.23699	297.8321	1.23908	300.7153	1.24116	303.6125
$\frac{1}{8}$	1.23705	297.9220	1.23914	300.8057	1.24122	303.7032
$\frac{5}{32}$	1.23712	298.0119	1.23921	300.8960	1.24129	303.7940
$\frac{3}{16}$	1.23718	298.1018	1.23927	300.9864	1.24135	303.8848
$\frac{7}{32}$	1.23725	298.1917	1.23934	301.0767	1.24142	303.9756
$\frac{1}{4}$	1.23731	298.2817	1.23940	301.1671	1.24148	304.0664
$\frac{9}{32}$	1.23738	298.3716	1.23947	301.2575	1.24155	304.1572
$\frac{5}{16}$	1.23744	298.4616	1.23953	301.3479	1.24161	304.2481
$\frac{11}{32}$	1.23751	298.5516	1.23960	301.4383	1.24168	304.3389
$\frac{3}{8}$	1.23758	298.6416	1.23966	301.5288	1.24174	304.4298
$\frac{13}{32}$	1.23764	298.7316	1.23973	301.6192	1.24181	304.5207
$\frac{7}{16}$	1.23771	298.8216	1.23979	301.7097	1.24187	304.6116
$\frac{15}{32}$	1.23777	298.9117	1.23986	301.8001	1.24194	304.7025
$\frac{1}{2}$	1.23784	299.0017	1.23992	301.8906	1.24200	304.7934
$\frac{17}{32}$	1.23790	299.0918	1.23999	301.9811	1.24207	304.8843
$\frac{9}{16}$	1.23797	299.1819	1.24005	302.0716	1.24213	304.9753
$\frac{19}{32}$	1.23803	299.2720	1.24012	302.1622	1.24220	305.0663
$\frac{5}{8}$	1.23810	299.3621	1.24019	302.2527	1.24226	305.1572
$\frac{21}{32}$	1.23816	299.4522	1.24025	302.3433	1.24233	305.2482
$\frac{11}{16}$	1.23823	299.5423	1.24032	302.4338	1.24239	305.3392
$\frac{23}{32}$	1.23829	299.6325	1.24038	302.5244	1.24246	305.4302
$\frac{3}{4}$	1.23836	299.7227	1.24045	302.6150	1.24252	305.5213
$\frac{25}{32}$	1.23843	299.8128	1.24051	302.7056	1.24259	305.6123
$\frac{13}{16}$	1.23849	299.9030	1.24058	302.7963	1.24265	305.7034
$\frac{27}{32}$	1.23856	299.9932	1.24064	302.8869	1.24271	305.7944
$\frac{7}{8}$	1.23862	300.0834	1.24071	302.9775	1.24278	305.8855
$\frac{29}{32}$	1.23869	300.1737	1.24077	303.0682	1.24284	305.9766
$\frac{15}{16}$	1.23875	300.2639	1.24084	303.1589	1.24291	306.0677
$\frac{31}{32}$	1.23882	300.3542	1.24090	303.2496	1.24297	306.1589
1	1.23888	300.4444	1.24097	303.3403	1.24304	306.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.24304	306.2500	1.24510	309.1736	1.24715	312.1111
$\frac{1}{32}$	1.24310	306.3412	1.24517	309.2652	1.24722	312.2031
$\frac{1}{16}$	1.24317	306.4323	1.24523	309.3568	1.24728	312.2952
$\frac{3}{32}$	1.24323	306.5235	1.24529	309.4484	1.24735	312.3872
$\frac{1}{8}$	1.24330	306.6147	1.24536	309.5400	1.24741	312.4793
$\frac{5}{32}$	1.24336	306.7059	1.24542	309.6317	1.24747	312.5714
$\frac{3}{16}$	1.24343	306.7971	1.24549	309.7233	1.24754	312.6634
$\frac{7}{32}$	1.24349	306.8884	1.24555	309.8150	1.24760	312.7555
$\frac{1}{4}$	1.24355	306.9796	1.24562	309.9067	1.24767	312.8477
$\frac{9}{32}$	1.24362	307.0709	1.24568	309.9984	1.24773	312.9398
$\frac{5}{16}$	1.24368	307.1621	1.24574	310.0901	1.24779	313.0319
$1\frac{1}{32}$	1.24375	307.2534	1.24581	310.1818	1.24786	313.1241
$\frac{3}{8}$	1.24381	307.3447	1.24587	310.2735	1.24792	313.2163
$1\frac{1}{32}$	1.24388	307.4360	1.24594	310.3653	1.24799	313.3084
$\frac{7}{16}$	1.24394	307.5274	1.24600	310.4571	1.24805	313.4006
$1\frac{5}{32}$	1.24401	307.6187	1.24606	310.5488	1.24811	313.4928
$\frac{1}{2}$	1.24407	307.7101	1.24613	310.6406	1.24818	313.5851
$1\frac{7}{32}$	1.24414	307.8014	1.24619	310.7324	1.24824	313.6773
$\frac{9}{16}$	1.24420	307.8928	1.24626	310.8242	1.24831	313.7696
$1\frac{9}{32}$	1.24426	307.9842	1.24632	310.9161	1.24837	313.8618
$\frac{5}{8}$	1.24433	308.0756	1.24639	311.0079	1.24843	313.9541
$1\frac{11}{32}$	1.24439	308.1671	1.24645	311.0998	1.24850	314.0464
$1\frac{1}{16}$	1.24446	308.2585	1.24651	311.1917	1.24856	314.1387
$1\frac{13}{32}$	1.24452	308.3499	1.24658	311.2835	1.24862	314.2310
$\frac{3}{4}$	1.24459	308.4414	1.24664	311.3754	1.24869	314.3234
$1\frac{15}{32}$	1.24465	308.5329	1.24671	311.4673	1.24875	314.4157
$1\frac{1}{8}$	1.24472	308.6244	1.24677	311.5593	1.24882	314.5081
$1\frac{17}{32}$	1.24478	308.7159	1.24683	311.6512	1.24888	314.6004
$\frac{7}{8}$	1.24484	308.8074	1.24690	311.7432	1.24894	314.6928
$1\frac{19}{32}$	1.24491	308.8989	1.24696	311.8351	1.24901	314.7852
$1\frac{1}{4}$	1.24497	308.9905	1.24703	311.9271	1.24907	314.8776
$1\frac{21}{32}$	1.24504	309.0820	1.24709	312.0191	1.24913	314.9701
1	1.24510	309.1736	1.24715	312.1111	1.24920	315.0625

17'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.24920	315.0625	1.25123	318.0278	1.25326	321.0069
$\frac{1}{32}$	1.24926	315.1550	1.25130	318.1207	1.25332	321.1003
$\frac{1}{16}$	1.24933	315.2474	1.25136	318.2136	1.25338	321.1936
$\frac{3}{32}$	1.24939	315.3399	1.25142	318.3065	1.25345	321.2870
$\frac{1}{8}$	1.24945	315.4324	1.25149	318.3994	1.25351	321.3803
$\frac{5}{32}$	1.24952	315.5249	1.25155	318.4924	1.25357	321.4737
$\frac{3}{16}$	1.24958	315.6174	1.25161	318.5853	1.25364	321.5671
$\frac{7}{32}$	1.24964	315.7100	1.25168	318.6783	1.25370	321.6605
$\frac{1}{4}$	1.24971	315.8025	1.25174	318.7713	1.25376	321.7539
$\frac{9}{32}$	1.24977	315.8951	1.25180	318.8643	1.25382	321.8473
$\frac{5}{16}$	1.24984	315.9877	1.25187	318.9573	1.25389	321.9408
$\frac{11}{32}$	1.24990	316.0802	1.25193	319.0503	1.25395	322.0342
$\frac{3}{8}$	1.24996	316.1729	1.25199	319.1433	1.25401	322.1277
$\frac{13}{32}$	1.25003	316.2655	1.25206	319.2364	1.25408	322.2212
$\frac{7}{16}$	1.25009	316.3581	1.25212	319.3295	1.25414	322.3147
$\frac{15}{32}$	1.25015	316.4507	1.25218	319.4225	1.25420	322.4082
$\frac{1}{2}$	1.25022	316.5434	1.25225	319.5156	1.25427	322.5017
$\frac{17}{32}$	1.25028	316.6361	1.25231	319.6087	1.25433	322.5953
$\frac{9}{16}$	1.25034	316.7288	1.25237	319.7019	1.25439	322.6888
$\frac{19}{32}$	1.25041	316.8215	1.25244	319.7950	1.25445	322.7824
$\frac{5}{8}$	1.25047	316.9142	1.25250	319.8881	1.25452	322.8760
$\frac{21}{32}$	1.25053	317.0069	1.25256	319.9813	1.25458	322.9696
$\frac{11}{16}$	1.25060	317.0996	1.25263	320.0745	1.25464	323.0632
$\frac{23}{32}$	1.25066	317.1924	1.25269	320.1676	1.25471	323.1568
$\frac{3}{4}$	1.25072	317.2852	1.25275	320.2609	1.25477	323.2504
$\frac{25}{32}$	1.25079	317.3779	1.25282	320.3541	1.25483	323.3441
$\frac{13}{16}$	1.25085	317.4707	1.25288	320.4473	1.25490	323.4377
$\frac{27}{32}$	1.25092	317.5635	1.25294	320.5405	1.25496	323.5314
$\frac{7}{8}$	1.25098	317.6564	1.25300	320.6338	1.25502	323.6251
$\frac{29}{32}$	1.25104	317.7492	1.25307	320.7271	1.25508	323.7188
$\frac{15}{16}$	1.25111	317.8420	1.25313	320.8203	1.25515	323.8125
$\frac{31}{32}$	1.25117	317.9349	1.25319	320.9136	1.25521	323.9063
1	1.25123	318.0278	1.25326	321.0069	1.25527	324.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.25527	324.0000	1.25728	327.0069	1.25928	330.0278
$\frac{1}{32}$	1.25534	324.0938	1.25734	327.1011	1.25934	330.1224
$\frac{1}{16}$	1.25540	324.1875	1.25740	327.1953	1.25940	330.2170
$\frac{3}{32}$	1.25546	324.2813	1.25747	327.2896	1.25946	330.3117
$\frac{1}{8}$	1.25552	324.3751	1.25753	327.3838	1.25952	330.4064
$\frac{5}{32}$	1.25559	324.4689	1.25759	327.4780	1.25959	330.5010
$\frac{3}{16}$	1.25565	324.5627	1.25765	327.5723	1.25965	330.5957
$\frac{7}{32}$	1.25571	324.6566	1.25772	327.6666	1.25971	330.6904
$\frac{1}{4}$	1.25577	324.7504	1.25778	327.7609	1.25977	330.7852
$\frac{9}{32}$	1.25584	324.8443	1.25784	327.8551	1.25984	330.8799
$\frac{5}{16}$	1.25590	324.9382	1.25790	327.9495	1.25990	330.9746
$1\frac{1}{32}$	1.25596	325.0321	1.25797	328.0438	1.25996	331.0694
$\frac{3}{8}$	1.25603	325.1260	1.25803	328.1381	1.26002	331.1642
$1\frac{3}{32}$	1.25609	325.2199	1.25809	328.2325	1.26008	331.2590
$\frac{7}{16}$	1.25615	325.3138	1.25815	328.3268	1.26015	331.3538
$1\frac{5}{32}$	1.25621	325.4078	1.25822	328.4212	1.26021	331.4486
$\frac{1}{2}$	1.25628	325.5017	1.25828	328.5156	1.26027	331.5434
$1\frac{7}{32}$	1.25634	325.5957	1.25834	328.6100	1.26033	331.6382
$\frac{9}{16}$	1.25640	325.6897	1.25840	328.7045	1.26039	331.7331
$1\frac{9}{32}$	1.25646	325.7837	1.25847	328.7989	1.26046	331.8280
$\frac{5}{8}$	1.25653	325.8777	1.25853	328.8933	1.26052	331.9229
$1\frac{11}{32}$	1.25659	325.9717	1.25859	328.9878	1.26058	332.0177
$1\frac{1}{16}$	1.25665	326.0658	1.25865	329.0823	1.26064	332.1127
$1\frac{3}{16}$	1.25672	326.1598	1.25871	329.1768	1.26070	332.2076
$\frac{3}{4}$	1.25678	326.2539	1.25878	329.2713	1.26077	332.3025
$1\frac{5}{16}$	1.25684	326.3480	1.25884	329.3658	1.26083	332.3975
$1\frac{7}{16}$	1.25690	326.4421	1.25890	329.4603	1.26089	332.4924
$1\frac{9}{16}$	1.25697	326.5362	1.25896	329.5549	1.26095	332.5874
$\frac{7}{8}$	1.25703	326.6303	1.25903	329.6494	1.26101	332.6824
$1\frac{11}{16}$	1.25709	326.7245	1.25909	329.7440	1.26108	332.7774
$1\frac{13}{16}$	1.25715	326.8186	1.25915	329.8386	1.26114	332.8724
$1\frac{15}{16}$	1.25722	326.9128	1.25921	329.9332	1.26120	332.9675
1	1.25728	327.0069	1.25928	330.0278	1.26126	333.0625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.26126	333.0625	1.26324	336.1111	1.26521	339.1736
$\frac{1}{32}$	1.26132	333.1576	1.26330	336.2066	1.26527	339.2695
$\frac{1}{16}$	1.26139	333.2526	1.26336	336.3021	1.26533	339.3655
$\frac{3}{32}$	1.26145	333.3477	1.26343	336.3976	1.26540	339.4614
$\frac{1}{8}$	1.26151	333.4428	1.26349	336.4932	1.26546	339.5574
$\frac{5}{32}$	1.26157	333.5379	1.26355	336.5887	1.26552	339.6534
$\frac{3}{16}$	1.26163	333.6331	1.26361	336.6843	1.26558	339.7494
$\frac{7}{32}$	1.26170	333.7282	1.26367	336.7798	1.26564	339.8454
$\frac{1}{4}$	1.26176	333.8234	1.26373	336.8754	1.26570	339.9414
$\frac{9}{32}$	1.26182	333.9185	1.26380	336.9710	1.26576	340.0374
$\frac{5}{16}$	1.26188	334.0137	1.26386	337.0667	1.26582	340.1335
$\frac{11}{32}$	1.26194	334.1089	1.26392	337.1623	1.26589	340.2296
$\frac{3}{8}$	1.26201	334.2041	1.26398	337.2579	1.26595	340.3256
$\frac{13}{32}$	1.26207	334.2993	1.26404	337.3536	1.26601	340.4217
$\frac{7}{16}$	1.26213	334.3946	1.26410	337.4492	1.26607	340.5178
$\frac{15}{32}$	1.26219	334.4898	1.26417	337.5449	1.26613	340.6139
$\frac{1}{2}$	1.26225	334.5851	1.26423	337.6406	1.26619	340.7101
$\frac{17}{32}$	1.26232	334.6803	1.26429	337.7363	1.26625	340.8062
$\frac{9}{16}$	1.26238	334.7756	1.26435	337.8321	1.26632	340.9024
$\frac{19}{32}$	1.26244	334.8709	1.26441	337.9278	1.26638	340.9985
$\frac{5}{8}$	1.26250	334.9663	1.26447	338.0235	1.26644	341.0947
$\frac{21}{32}$	1.26256	335.0616	1.26453	338.1193	1.26650	341.1909
$\frac{11}{16}$	1.26262	335.1569	1.26460	338.2151	1.26656	341.2871
$\frac{23}{32}$	1.26269	335.2523	1.26466	338.3109	1.26662	341.3834
$\frac{3}{4}$	1.26275	335.3477	1.26472	338.4067	1.26668	341.4796
$\frac{25}{32}$	1.26281	335.4430	1.26478	338.5025	1.26674	341.5759
$\frac{13}{16}$	1.26287	335.5384	1.26484	338.5983	1.26680	341.6721
$\frac{27}{32}$	1.26293	335.6339	1.26490	338.6942	1.26687	341.7684
$\frac{7}{8}$	1.26299	335.7293	1.26497	338.7900	1.26693	341.8647
$\frac{29}{32}$	1.26306	335.8247	1.26503	338.8859	1.26699	341.9610
$\frac{15}{16}$	1.26312	335.9202	1.26509	338.9818	1.26705	342.0573
$\frac{31}{32}$	1.26318	336.0156	1.26515	339.0777	1.26711	342.1537
1	1.26324	336.1111	1.26521	339.1736	1.26717	342.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.26717	342.2500	1.26912	345.3403	1.27107	348.4444
$\frac{1}{32}$	1.26723	342.3464	1.26918	345.4371	1.27113	348.5417
$\frac{1}{16}$	1.26729	342.4427	1.26925	345.5339	1.27119	348.6389
$\frac{3}{32}$	1.26736	342.5391	1.26931	345.6307	1.27125	348.7362
$\frac{1}{8}$	1.26742	342.6355	1.26937	345.7275	1.27131	348.8334
$\frac{5}{32}$	1.26748	342.7319	1.26943	345.8244	1.27137	348.9307
$\frac{3}{16}$	1.26754	342.8284	1.26949	345.9213	1.27143	349.0280
$\frac{7}{32}$	1.26760	342.9248	1.26955	346.0181	1.27149	349.1253
$\frac{1}{4}$	1.26766	343.0213	1.26961	346.1150	1.27155	349.2227
$\frac{9}{32}$	1.26772	343.1177	1.26967	346.2119	1.27161	349.3200
$\frac{5}{16}$	1.26778	343.2142	1.26973	346.3088	1.27167	349.4173
$\frac{11}{32}$	1.26784	343.3107	1.26979	346.4058	1.27173	349.5147
$\frac{3}{8}$	1.26790	343.4072	1.26985	346.5027	1.27179	349.6121
$\frac{13}{32}$	1.26797	343.5038	1.26991	346.5997	1.27185	349.7095
$\frac{7}{16}$	1.26803	343.6003	1.26997	346.6966	1.27191	349.8069
$\frac{15}{32}$	1.26809	343.6968	1.27004	346.7936	1.27197	349.9043
$\frac{1}{2}$	1.26815	343.7934	1.27010	346.8906	1.27204	350.0017
$\frac{17}{32}$	1.26821	343.8900	1.27016	346.9876	1.27210	350.0992
$\frac{9}{16}$	1.26827	343.9866	1.27022	347.0847	1.27216	350.1966
$\frac{19}{32}$	1.26833	344.0832	1.27028	347.1817	1.27222	350.2941
$\frac{5}{8}$	1.26839	344.1798	1.27034	347.2788	1.27228	350.3916
$\frac{21}{32}$	1.26845	344.2764	1.27040	347.3758	1.27234	350.4891
$\frac{11}{16}$	1.26851	344.3731	1.27046	347.4729	1.27240	350.5866
$\frac{23}{32}$	1.26858	344.4697	1.27052	347.5700	1.27246	350.6841
$\frac{3}{4}$	1.26864	344.5664	1.27058	347.6671	1.27252	350.7817
$\frac{25}{32}$	1.26870	344.6631	1.27064	347.7642	1.27258	350.8792
$\frac{13}{16}$	1.26876	344.7598	1.27070	347.8614	1.27264	350.9768
$\frac{27}{32}$	1.26882	344.8565	1.27076	347.9585	1.27270	351.0744
$\frac{7}{8}$	1.26888	344.9532	1.27082	348.0557	1.27276	351.1720
$\frac{29}{32}$	1.26894	345.0500	1.27088	348.1528	1.27282	351.2696
$\frac{15}{16}$	1.26900	345.1467	1.27095	348.2500	1.27288	351.3672
$\frac{31}{32}$	1.26906	345.2435	1.27101	348.3472	1.27294	351.4649
1	1.26912	345.3403	1.27107	348.4444	1.27300	351.5625

18'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.27300	351.5625	1.27493	354.6944	1.27684	357.8403
$\frac{1}{32}$	1.27306	351.6602	1.27499	354.7925	1.27690	357.9388
$\frac{1}{16}$	1.27312	351.7578	1.27505	354.8907	1.27696	358.0374
$\frac{3}{32}$	1.27318	351.8555	1.27511	354.9888	1.27702	358.1359
$\frac{1}{8}$	1.27324	351.9532	1.27517	355.0869	1.27708	358.2345
$\frac{5}{32}$	1.27330	352.0510	1.27523	355.1851	1.27714	358.3331
$\frac{3}{16}$	1.27336	352.1487	1.27529	355.2832	1.27720	358.4317
$\frac{7}{32}$	1.27342	352.2464	1.27535	355.3814	1.27726	358.5303
$\frac{1}{4}$	1.27348	352.3442	1.27541	355.4796	1.27732	358.6289
$\frac{9}{32}$	1.27354	352.4420	1.27547	355.5778	1.27738	358.7275
$\frac{5}{16}$	1.27360	352.5397	1.27553	355.6760	1.27744	358.8262
$1\frac{1}{32}$	1.27366	352.6375	1.27559	355.7743	1.27750	358.9249
$\frac{3}{8}$	1.27372	352.7354	1.27565	355.8725	1.27756	359.0235
$1\frac{3}{32}$	1.27378	352.8332	1.27571	355.9708	1.27762	359.1222
$\frac{7}{16}$	1.27384	352.9310	1.27577	356.0690	1.27768	359.2209
$1\frac{5}{32}$	1.27391	353.0289	1.27583	356.1673	1.27774	359.3197
$\frac{1}{2}$	1.27397	353.1267	1.27589	356.2656	1.27780	359.4184
$1\frac{7}{32}$	1.27403	353.2246	1.27595	356.3639	1.27786	359.5172
$\frac{9}{16}$	1.27409	353.3225	1.27601	356.4623	1.27792	359.6159
$1\frac{9}{32}$	1.27415	353.4204	1.27607	356.5606	1.27798	359.7147
$\frac{5}{8}$	1.27421	353.5183	1.27613	356.6590	1.27804	359.8135
$1\frac{11}{32}$	1.27427	353.6163	1.27619	356.7573	1.27810	359.9123
$1\frac{1}{16}$	1.27433	353.7142	1.27625	356.8557	1.27816	360.0111
$1\frac{13}{32}$	1.27439	353.8122	1.27631	356.9541	1.27822	360.1099
$\frac{3}{4}$	1.27445	353.9102	1.27637	357.0525	1.27828	360.2088
$1\frac{15}{32}$	1.27451	354.0081	1.27643	357.1509	1.27834	360.3076
$1\frac{1}{8}$	1.27457	354.1061	1.27649	357.2494	1.27840	360.4065
$1\frac{17}{32}$	1.27463	354.2042	1.27655	357.3478	1.27846	360.5054
$\frac{7}{8}$	1.27469	354.3022	1.27661	357.4463	1.27852	360.6043
$1\frac{19}{32}$	1.27475	354.4002	1.27667	357.5448	1.27857	360.7032
$1\frac{1}{4}$	1.27481	354.4983	1.27673	357.6433	1.27863	360.8021
$1\frac{21}{32}$	1.27487	354.5964	1.27678	357.7418	1.27869	360.9010
1	1.27493	354.6944	1.27684	357.8403	1.27875	361.0000

19'

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.27875	361.0000	1.28065	364.1736	1.28255	367.3611
$\frac{1}{32}$	1.27881	361.0990	1.28071	364.2730	1.28261	367.4609
$\frac{1}{16}$	1.27887	361.1979	1.28077	364.3724	1.28266	367.5608
$\frac{3}{32}$	1.27893	361.2969	1.28083	364.4718	1.28272	367.6607
$\frac{1}{8}$	1.27899	361.3959	1.28089	364.5713	1.28278	367.7605
$\frac{5}{32}$	1.27905	361.4950	1.28095	364.6707	1.28284	367.8604
$\frac{3}{16}$	1.27911	361.5940	1.28101	364.7702	1.28290	367.9603
$\frac{7}{32}$	1.27917	361.6930	1.28107	364.8697	1.28296	368.0602
$\frac{1}{4}$	1.27923	361.7921	1.28113	364.9692	1.28302	368.1602
$\frac{9}{32}$	1.27929	361.8912	1.28119	365.0687	1.28308	368.2601
$\frac{5}{16}$	1.27935	361.9903	1.28125	365.1682	1.28314	368.3601
$\frac{11}{32}$	1.27941	362.0894	1.28131	365.2677	1.28320	368.4600
$\frac{3}{8}$	1.27947	362.1885	1.28136	365.3673	1.28325	368.5600
$\frac{13}{32}$	1.27953	362.2876	1.28142	365.4669	1.28331	368.6600
$\frac{7}{16}$	1.27959	362.3867	1.28148	365.5664	1.28337	368.7600
$\frac{15}{32}$	1.27965	362.4859	1.28154	365.6660	1.28343	368.8600
$\frac{1}{2}$	1.27970	362.5851	1.28160	365.7656	1.28349	368.9601
$\frac{17}{32}$	1.27976	362.6843	1.28166	365.8652	1.28355	369.0601
$\frac{9}{16}$	1.27982	362.7834	1.28172	365.9649	1.28361	369.1602
$\frac{19}{32}$	1.27988	362.8827	1.28178	366.0645	1.28367	369.2603
$\frac{5}{8}$	1.27994	362.9819	1.28184	366.1642	1.28373	369.3604
$\frac{21}{32}$	1.28000	363.0811	1.28190	366.2638	1.28378	369.4605
$\frac{11}{16}$	1.28006	363.1804	1.28196	366.3635	1.28384	369.5606
$\frac{23}{32}$	1.28012	363.2796	1.28202	366.4632	1.28390	369.6607
$\frac{3}{4}$	1.28018	363.3789	1.28207	366.5629	1.28396	369.7609
$\frac{25}{32}$	1.28024	363.4782	1.28213	366.6627	1.28402	369.8610
$\frac{13}{16}$	1.28030	363.5775	1.28219	366.7624	1.28408	369.9612
$\frac{27}{32}$	1.28036	363.6768	1.28225	366.8621	1.28414	370.0614
$\frac{7}{8}$	1.28042	363.7761	1.28231	366.9619	1.28420	370.1616
$\frac{29}{32}$	1.28048	363.8755	1.28237	367.0617	1.28425	370.2618
$\frac{15}{16}$	1.28054	363.9749	1.28243	367.1615	1.28431	370.3620
$\frac{31}{32}$	1.28059	364.0742	1.28249	367.2613	1.28437	370.4622
1	1.28065	364.1736	1.28255	367.3611	1.28443	370.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.28443	370.5625	1.28631	373.7778	1.28817	377.0069
$\frac{1}{32}$	1.28449	370.6628	1.28637	373.8785	1.28823	377.1081
$\frac{1}{16}$	1.28455	370.7630	1.28642	373.9792	1.28829	377.2092
$\frac{3}{32}$	1.28461	370.8633	1.28648	374.0799	1.28835	377.3104
$\frac{1}{8}$	1.28467	370.9637	1.28654	374.1807	1.28841	377.4116
$\frac{5}{32}$	1.28472	371.0640	1.28660	374.2814	1.28847	377.5128
$\frac{3}{16}$	1.28478	371.1643	1.28666	374.3822	1.28852	377.6140
$\frac{7}{32}$	1.28484	371.2647	1.28672	374.4830	1.28858	377.7152
$\frac{1}{4}$	1.28490	371.3650	1.28677	374.5838	1.28864	377.8164
$\frac{9}{32}$	1.28496	371.4654	1.28683	374.6846	1.28870	377.9177
$\frac{5}{16}$	1.28502	371.5658	1.28689	374.7854	1.28876	378.0189
$\frac{11}{32}$	1.28508	371.6662	1.28695	374.8862	1.28881	378.1202
$\frac{3}{8}$	1.28514	371.7666	1.28701	374.9871	1.28887	378.2215
$\frac{13}{32}$	1.28519	371.8670	1.28707	375.0880	1.28893	378.3228
$\frac{7}{16}$	1.28525	371.9675	1.28712	375.1888	1.28899	378.4241
$\frac{15}{32}$	1.28531	372.0679	1.28718	375.2897	1.28905	378.5254
$\frac{1}{2}$	1.28537	372.1684	1.28724	375.3906	1.28911	378.6267
$\frac{17}{32}$	1.28543	372.2689	1.28730	375.4915	1.28916	378.7281
$\frac{9}{16}$	1.28549	372.3694	1.28736	375.5925	1.28922	378.8295
$\frac{19}{32}$	1.28555	372.4699	1.28742	375.6934	1.28928	378.9308
$\frac{5}{8}$	1.28560	372.5704	1.28748	375.7944	1.28934	379.0322
$\frac{21}{32}$	1.28566	372.6710	1.28753	375.8954	1.28940	379.1336
$\frac{11}{16}$	1.28572	372.7715	1.28759	375.9963	1.28945	379.2351
$\frac{23}{32}$	1.28578	372.8721	1.28765	376.0973	1.28951	379.3365
$\frac{3}{4}$	1.28584	372.9727	1.28771	376.1984	1.28957	379.4379
$\frac{25}{32}$	1.28590	373.0732	1.28777	376.2994	1.28963	379.5394
$\frac{13}{16}$	1.28596	373.1739	1.28783	376.4004	1.28969	379.6409
$\frac{27}{32}$	1.28601	373.2745	1.28788	376.5015	1.28974	379.7424
$\frac{7}{8}$	1.28607	373.3751	1.28794	376.6025	1.28980	379.8439
$\frac{29}{32}$	1.28613	373.4758	1.28800	376.7036	1.28986	379.9454
$\frac{15}{16}$	1.28619	373.5764	1.28806	376.8047	1.28992	380.0469
$\frac{31}{32}$	1.28625	373.6771	1.28812	376.9058	1.28998	380.1484
1	1.28631	373.7778	1.28817	377.0069	1.29003	380.2500

19'

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.29003	380.2500	1.29189	383.5069	1.29373	386.7778
$\frac{1}{32}$	1.29009	380.3516	1.29194	383.6089	1.29379	386.8802
$\frac{1}{16}$	1.29015	380.4532	1.29200	383.7110	1.29385	386.9827
$\frac{3}{32}$	1.29021	380.5547	1.29206	383.8130	1.29390	387.0851
$\frac{1}{8}$	1.29027	380.6564	1.29212	383.9150	1.29396	387.1876
$\frac{5}{32}$	1.29032	380.7580	1.29218	384.0171	1.29402	387.2901
$\frac{3}{16}$	1.29038	380.8596	1.29223	384.1192	1.29408	387.3926
$\frac{7}{32}$	1.29044	380.9613	1.29229	384.2213	1.29413	387.4951
$\frac{1}{4}$	1.29050	381.0629	1.29235	384.3234	1.29419	387.5977
$\frac{9}{32}$	1.29056	381.1646	1.29241	384.4255	1.29425	387.7002
$\frac{5}{16}$	1.29061	381.2663	1.29246	384.5276	1.29431	387.8028
$\frac{11}{32}$	1.29067	381.3680	1.29252	384.6297	1.29436	387.9053
$\frac{3}{8}$	1.29073	381.4697	1.29258	384.7319	1.29442	388.0079
$\frac{13}{32}$	1.29079	381.5715	1.29264	384.8340	1.29448	388.1105
$\frac{7}{16}$	1.29085	381.6732	1.29269	384.9362	1.29454	388.2131
$\frac{15}{32}$	1.29090	381.7750	1.29275	385.0384	1.29459	388.3158
$\frac{1}{2}$	1.29096	381.8767	1.29281	385.1406	1.29465	388.4184
$\frac{17}{32}$	1.29102	381.9785	1.29287	385.2428	1.29471	388.5211
$\frac{9}{16}$	1.29108	382.0803	1.29292	385.3451	1.29476	388.6237
$\frac{19}{32}$	1.29114	382.1821	1.29298	385.4473	1.29482	388.7264
$\frac{5}{8}$	1.29119	382.2840	1.29304	385.5496	1.29488	388.8291
$\frac{21}{32}$	1.29125	382.3858	1.29310	385.6519	1.29494	388.9318
$\frac{11}{16}$	1.29131	382.4877	1.29316	385.7542	1.29499	389.0345
$\frac{23}{32}$	1.29137	382.5895	1.29321	385.8565	1.29505	389.1373
$\frac{3}{4}$	1.29142	382.6914	1.29327	385.9588	1.29511	389.2400
$\frac{25}{32}$	1.29148	382.7933	1.29333	386.0611	1.29517	389.3428
$\frac{13}{16}$	1.29154	382.8952	1.29339	386.1634	1.29522	389.4456
$\frac{27}{32}$	1.29160	382.9971	1.29344	386.2658	1.29528	389.5483
$\frac{7}{8}$	1.29166	383.0991	1.29350	386.3682	1.29534	389.6512
$\frac{29}{32}$	1.29171	383.2010	1.29356	386.4705	1.29540	389.7540
$\frac{15}{16}$	1.29177	383.3030	1.29362	386.5729	1.29545	389.8568
$\frac{31}{32}$	1.29183	383.4050	1.29367	386.6754	1.29551	389.9596
1	1.29189	383.5069	1.29373	386.7778	1.29557	390.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.29557	390.0625	1.29740	393.3611	1.29922	396.6736
$\frac{1}{32}$	1.29562	390.1654	1.29745	393.4644	1.29927	396.7774
$\frac{1}{16}$	1.29568	390.2683	1.29751	393.5677	1.29933	396.8811
$\frac{3}{32}$	1.29574	390.3712	1.29757	393.6711	1.29939	396.9849
$\frac{1}{8}$	1.29580	390.4741	1.29762	393.7744	1.29944	397.0887
$\frac{5}{32}$	1.29585	390.5770	1.29768	393.8778	1.29950	397.1924
$\frac{3}{16}$	1.29591	390.6799	1.29774	393.9811	1.29956	397.2963
$\frac{7}{32}$	1.29597	390.7829	1.29779	394.0845	1.29961	397.4001
$\frac{1}{4}$	1.29602	390.8859	1.29785	394.1879	1.29967	397.5039
$\frac{9}{32}$	1.29608	390.9888	1.29791	394.2913	1.29973	397.6078
$\frac{5}{16}$	1.29614	391.0918	1.29797	394.3948	1.29978	397.7116
$\frac{11}{32}$	1.29620	391.1948	1.29802	394.4982	1.29984	397.8155
$\frac{3}{8}$	1.29625	391.2979	1.29808	394.6017	1.29990	397.9194
$\frac{13}{32}$	1.29631	391.4009	1.29814	394.7051	1.29995	398.0233
$\frac{7}{16}$	1.29637	391.5039	1.29819	394.8086	1.30001	398.1272
$\frac{15}{32}$	1.29643	391.6070	1.29825	394.9121	1.30007	398.2311
$\frac{1}{2}$	1.29648	391.7101	1.29831	395.0156	1.30012	398.3351
$\frac{17}{32}$	1.29654	391.8132	1.29836	395.1191	1.30018	398.4390
$\frac{9}{16}$	1.29660	391.9163	1.29842	395.2227	1.30024	398.5430
$\frac{19}{32}$	1.29665	392.0194	1.29848	395.3262	1.30029	398.6470
$\frac{5}{8}$	1.29671	392.1225	1.29853	395.4298	1.30035	398.7510
$\frac{21}{32}$	1.29677	392.2256	1.29859	395.5334	1.30041	398.8550
$\frac{11}{16}$	1.29683	392.3288	1.29865	395.6370	1.30046	398.9590
$\frac{23}{32}$	1.29688	392.4320	1.29871	395.7406	1.30052	399.0630
$\frac{3}{4}$	1.29694	392.5352	1.29876	395.8442	1.30058	399.1671
$\frac{25}{32}$	1.29700	392.6384	1.29882	395.9478	1.30063	399.2712
$\frac{13}{16}$	1.29705	392.7416	1.29888	396.0515	1.30069	399.3752
$\frac{27}{32}$	1.29711	392.8448	1.29893	396.1551	1.30075	399.4793
$\frac{7}{8}$	1.29717	392.9480	1.29899	396.2588	1.30080	399.5834
$\frac{29}{32}$	1.29722	393.0513	1.29905	396.3625	1.30086	399.6876
$\frac{15}{16}$	1.29728	393.1545	1.29910	396.4662	1.30092	399.7917
$\frac{31}{32}$	1.29734	393.2578	1.29916	396.5699	1.30097	399.8958
1	1.29740	393.3611	1.29922	396.6736	1.30103	400.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.30103	400.0000	1.30284	403.3403	1.30463	406.6944
$\frac{1}{32}$	1.30109	400.1042	1.30289	403.4449	1.30469	406.7995
$\frac{1}{16}$	1.30114	400.2084	1.30295	403.5495	1.30475	406.9045
$\frac{3}{32}$	1.30120	400.3126	1.30300	403.6541	1.30480	407.0096
$\frac{1}{8}$	1.30126	400.4168	1.30306	403.7588	1.30486	407.1147
$\frac{5}{32}$	1.30131	400.5210	1.30312	403.8635	1.30491	407.2198
$\frac{3}{16}$	1.30137	400.6252	1.30317	403.9681	1.30497	407.3249
$\frac{7}{32}$	1.30143	400.7295	1.30323	404.0728	1.30503	407.4300
$\frac{1}{4}$	1.30148	400.8338	1.30329	404.1775	1.30508	407.5352
$\frac{9}{32}$	1.30154	400.9380	1.30334	404.2822	1.30514	407.6403
$\frac{5}{16}$	1.30160	401.0423	1.30340	404.3870	1.30519	407.7455
$\frac{11}{32}$	1.30165	401.1467	1.30345	404.4917	1.30525	407.8506
$\frac{3}{8}$	1.30171	401.2510	1.30351	404.5965	1.30531	407.9558
$\frac{13}{32}$	1.30176	401.3553	1.30357	404.7012	1.30536	408.0610
$\frac{7}{16}$	1.30182	401.4597	1.30362	404.8060	1.30542	408.1663
$\frac{15}{32}$	1.30188	401.5640	1.30368	404.9108	1.30547	408.2715
$\frac{1}{2}$	1.30193	401.6684	1.30374	405.0156	1.30553	408.3767
$\frac{17}{32}$	1.30199	401.7728	1.30379	405.1204	1.30559	408.4820
$\frac{9}{16}$	1.30205	401.8772	1.30385	405.2253	1.30564	408.5873
$\frac{19}{32}$	1.30210	401.9816	1.30390	405.3301	1.30570	408.6926
$\frac{5}{8}$	1.30216	402.0860	1.30396	405.4350	1.30575	408.7979
$\frac{21}{32}$	1.30222	402.1905	1.30402	405.5399	1.30581	408.9032
$\frac{11}{16}$	1.30227	402.2949	1.30407	405.6448	1.30587	409.0085
$\frac{23}{32}$	1.30233	402.3994	1.30413	405.7497	1.30592	409.1138
$\frac{3}{4}$	1.30239	402.5039	1.30419	405.8546	1.30598	409.2192
$\frac{25}{32}$	1.30244	402.6084	1.30424	405.9595	1.30603	409.3246
$\frac{13}{16}$	1.30250	402.7129	1.30430	406.0645	1.30609	409.4299
$\frac{27}{32}$	1.30255	402.8174	1.30435	406.1694	1.30615	409.5353
$\frac{7}{8}$	1.30261	402.9220	1.30441	406.2744	1.30620	409.6407
$\frac{29}{32}$	1.30267	403.0265	1.30447	406.3794	1.30626	409.7462
$\frac{15}{16}$	1.30272	403.1311	1.30452	406.4844	1.30631	409.8516
$\frac{31}{32}$	1.30278	403.2357	1.30458	406.5894	1.30637	409.9570
1	1.30284	403.3403	1.30463	406.6944	1.30643	410.0625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.30643	410.0625	1.30821	413.4444	1.30998	416.8403
$\frac{1}{32}$	1.30648	410.1680	1.30826	413.5504	1.31004	416.9466
$\frac{1}{16}$	1.30654	410.2735	1.30832	413.6563	1.31010	417.0530
$\frac{3}{32}$	1.30659	410.3790	1.30838	413.7622	1.31015	417.1593
$\frac{1}{8}$	1.30665	410.4845	1.30843	413.8682	1.31021	417.2657
$\frac{5}{32}$	1.30670	410.5900	1.30849	413.9741	1.31026	417.3721
$\frac{3}{16}$	1.30676	410.6956	1.30854	414.0801	1.31032	417.4785
$\frac{7}{32}$	1.30682	410.8011	1.30860	414.1861	1.31037	417.5850
$\frac{1}{4}$	1.30687	410.9067	1.30865	414.2921	1.31043	417.6914
$\frac{9}{32}$	1.30693	411.0123	1.30871	414.3981	1.31048	417.7979
$\frac{5}{16}$	1.30698	411.1179	1.30876	414.5042	1.31054	417.9043
$1\frac{1}{32}$	1.30704	411.2235	1.30882	414.6102	1.31059	418.0108
$\frac{3}{8}$	1.30709	411.3291	1.30888	414.7163	1.31065	418.1173
$1\frac{3}{32}$	1.30715	411.4347	1.30893	414.8223	1.31070	418.2238
$\frac{7}{16}$	1.30721	411.5404	1.30899	414.9284	1.31076	418.3303
$1\frac{5}{32}$	1.30726	411.6461	1.30904	415.0345	1.31081	418.4369
$\frac{1}{2}$	1.30732	411.7517	1.30910	415.1406	1.31087	418.5434
$1\frac{7}{32}$	1.30737	411.8574	1.30915	415.2468	1.31093	418.6500
$\frac{9}{16}$	1.30743	411.9631	1.30921	415.3529	1.31098	418.7565
$1\frac{9}{32}$	1.30748	412.0689	1.30926	415.4590	1.31104	418.8631
$\frac{5}{8}$	1.30754	412.1746	1.30932	415.5652	1.31109	418.9697
$2\frac{1}{32}$	1.30760	412.2803	1.30938	415.6714	1.31115	419.0763
$1\frac{1}{4}$	1.30765	412.3861	1.30943	415.7776	1.31120	419.1830
$2\frac{3}{32}$	1.30771	412.4919	1.30949	415.8838	1.31126	419.2896
$\frac{3}{4}$	1.30776	412.5977	1.30954	415.9900	1.31131	419.3963
$2\frac{5}{32}$	1.30782	412.7035	1.30960	416.0963	1.31137	419.5029
$1\frac{3}{8}$	1.30787	412.8093	1.30965	416.2025	1.31142	419.6096
$2\frac{7}{32}$	1.30793	412.9151	1.30971	416.3088	1.31148	419.7163
$\frac{7}{8}$	1.30799	413.0209	1.30976	416.4150	1.31153	419.8230
$2\frac{9}{32}$	1.30804	413.1268	1.30982	416.5213	1.31159	419.9297
$1\frac{5}{8}$	1.30810	413.2327	1.30987	416.6276	1.31164	420.0365
$3\frac{1}{32}$	1.30815	413.3385	1.30993	416.7339	1.31170	420.1432
1	1.30821	413.4444	1.30998	416.8403	1.31175	420.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.31175	420.2500	1.31352	423.6736	1.31527	427.1111
$\frac{1}{32}$	1.31181	420.3568	1.31357	423.7808	1.31533	427.2188
$\frac{1}{16}$	1.31186	420.4636	1.31363	423.8880	1.31538	427.3264
$\frac{3}{32}$	1.31192	420.5704	1.31368	423.9953	1.31543	427.4341
$\frac{1}{8}$	1.31197	420.6772	1.31374	424.1025	1.31549	427.5418
$\frac{5}{32}$	1.31203	420.7840	1.31379	424.2098	1.31554	427.6495
$\frac{3}{16}$	1.31208	420.8909	1.31385	424.3171	1.31560	427.7572
$\frac{7}{32}$	1.31214	420.9977	1.31390	424.4244	1.31565	427.8649
$\frac{1}{4}$	1.31219	421.1046	1.31396	424.5317	1.31571	427.9727
$\frac{9}{32}$	1.31225	421.2115	1.31401	424.6390	1.31576	428.0804
$\frac{5}{16}$	1.31231	421.3184	1.31406	424.7463	1.31582	428.1882
$\frac{11}{32}$	1.31236	421.4253	1.31412	424.8537	1.31587	428.2960
$\frac{3}{8}$	1.31242	421.5322	1.31417	424.9610	1.31593	428.4038
$\frac{13}{32}$	1.31247	421.6392	1.31423	425.0684	1.31598	428.5116
$\frac{7}{16}$	1.31253	421.7461	1.31428	425.1758	1.31604	428.6194
$\frac{15}{32}$	1.31258	421.8531	1.31434	425.2832	1.31609	428.7272
$\frac{1}{2}$	1.31264	421.9601	1.31439	425.3906	1.31615	428.8351
$\frac{17}{32}$	1.31269	422.0671	1.31445	425.4981	1.31620	428.9429
$\frac{9}{16}$	1.31275	422.1741	1.31450	425.6055	1.31625	429.0508
$\frac{19}{32}$	1.31280	422.2811	1.31456	425.7130	1.31631	429.1587
$\frac{5}{8}$	1.31286	422.3881	1.31461	425.8204	1.31636	429.2666
$\frac{21}{32}$	1.31291	422.4952	1.31467	425.9279	1.31642	429.3745
$\frac{11}{16}$	1.31297	422.6022	1.31472	426.0354	1.31647	429.4824
$\frac{23}{32}$	1.31302	422.7093	1.31478	426.1429	1.31653	429.5904
$\frac{3}{4}$	1.31308	422.8164	1.31483	426.2504	1.31658	429.6984
$\frac{25}{32}$	1.31313	422.9235	1.31489	426.3580	1.31664	429.8063
$\frac{13}{16}$	1.31319	423.0306	1.31494	426.4655	1.31669	429.9143
$\frac{27}{32}$	1.31324	423.1378	1.31500	426.5731	1.31675	430.0223
$\frac{7}{8}$	1.31330	423.2449	1.31505	426.6807	1.31680	430.1303
$\frac{29}{32}$	1.31335	423.3521	1.31511	426.7883	1.31685	430.2383
$\frac{15}{16}$	1.31341	423.4592	1.31516	426.8959	1.31691	430.3464
$\frac{31}{32}$	1.31346	423.5664	1.31522	427.0035	1.31696	430.4544
1	1.31352	423.6736	1.31527	427.1111	1.31702	430.5625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.31702	430.5625	1.31876	434.0278	1.32049	437.5069
$\frac{1}{32}$	1.31707	430.6706	1.31881	434.1363	1.32055	437.6159
$\frac{1}{16}$	1.31713	430.7787	1.31887	434.2448	1.32060	437.7249
$\frac{3}{32}$	1.31718	430.8868	1.31892	434.3534	1.32065	437.8338
$\frac{1}{8}$	1.31724	430.9949	1.31898	434.4619	1.32071	437.9428
$\frac{5}{32}$	1.31729	431.1030	1.31903	434.5705	1.32076	438.0518
$\frac{3}{16}$	1.31735	431.2112	1.31908	434.6791	1.32082	438.1608
$\frac{7}{32}$	1.31740	431.3193	1.31914	434.7877	1.32087	438.2699
$\frac{1}{4}$	1.31745	431.4275	1.31919	434.8963	1.32092	438.3789
$\frac{9}{32}$	1.31751	431.5357	1.31925	435.0049	1.32098	438.4880
$\frac{5}{16}$	1.31756	431.6439	1.31930	435.1135	1.32103	438.5970
$\frac{11}{32}$	1.31762	431.7521	1.31936	435.2222	1.32109	438.7061
$\frac{3}{8}$	1.31767	431.8604	1.31941	435.3308	1.32114	438.8152
$\frac{13}{32}$	1.31773	431.9686	1.31946	435.4395	1.32119	438.9243
$\frac{7}{16}$	1.31778	432.0768	1.31952	435.5482	1.32125	439.0334
$\frac{15}{32}$	1.31783	432.1851	1.31957	435.6569	1.32130	439.1426
$\frac{1}{2}$	1.31789	432.2934	1.31963	435.7656	1.32136	439.2517
$\frac{17}{32}$	1.31794	432.4017	1.31968	435.8744	1.32141	439.3609
$\frac{9}{16}$	1.31800	432.5100	1.31973	435.9831	1.32146	439.4701
$\frac{19}{32}$	1.31805	432.6183	1.31979	436.0919	1.32152	439.5793
$\frac{5}{8}$	1.31811	432.7267	1.31984	436.2006	1.32157	439.6885
$\frac{21}{32}$	1.31816	432.8350	1.31990	436.3094	1.32163	439.7977
$\frac{11}{16}$	1.31822	432.9434	1.31995	436.4182	1.32168	439.9069
$\frac{23}{32}$	1.31827	433.0518	1.32001	436.5270	1.32173	440.0162
$\frac{3}{4}$	1.31832	433.1602	1.32006	436.6359	1.32179	440.1254
$\frac{25}{32}$	1.31838	433.2686	1.32011	436.7447	1.32184	440.2347
$\frac{13}{16}$	1.31843	433.3770	1.32017	436.8535	1.32190	440.3440
$\frac{27}{32}$	1.31849	433.4854	1.32022	436.9624	1.32195	440.4533
$\frac{7}{8}$	1.31854	433.5939	1.32028	437.0713	1.32200	440.5626
$\frac{29}{32}$	1.31860	433.7023	1.32033	437.1802	1.32206	440.6719
$\frac{15}{16}$	1.31865	433.8108	1.32038	437.2891	1.32211	440.7813
$\frac{31}{32}$	1.31870	433.9193	1.32044	437.3980	1.32217	440.8906
1	1.31876	434.0278	1.32049	437.5069	1.32222	441.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.32222	441.0000	1.32394	444.5069	1.32565	448.0278
$\frac{1}{8}$	1.32227	441.1094	1.32399	444.6168	1.32571	448.1380
$\frac{1}{16}$	1.32233	441.2188	1.32405	444.7266	1.32576	448.2483
$\frac{3}{32}$	1.32238	441.3282	1.32410	444.8364	1.32581	448.3586
$\frac{1}{8}$	1.32243	441.4376	1.32415	444.9463	1.32587	448.4689
$\frac{5}{32}$	1.32249	441.5470	1.32421	445.0562	1.32592	448.5792
$\frac{3}{16}$	1.32254	441.6565	1.32426	445.1660	1.32597	448.6895
$\frac{7}{32}$	1.32260	441.7660	1.32431	445.2759	1.32603	448.7998
$\frac{1}{4}$	1.32265	441.8754	1.32437	445.3859	1.32608	448.9102
$\frac{9}{32}$	1.32270	441.9849	1.32442	445.4958	1.32613	449.0205
$\frac{5}{16}$	1.32276	442.0944	1.32448	445.6057	1.32619	449.1309
$\frac{11}{32}$	1.32281	442.2039	1.32453	445.7157	1.32624	449.2413
$\frac{3}{8}$	1.32287	442.3135	1.32458	445.8256	1.32629	449.3517
$\frac{13}{32}$	1.32292	442.4230	1.32464	445.9356	1.32635	449.4621
$\frac{7}{16}$	1.32297	442.5326	1.32469	446.0456	1.32640	449.5725
$\frac{15}{32}$	1.32303	442.6422	1.32474	446.1556	1.32645	449.6830
$\frac{1}{2}$	1.32308	442.7517	1.32480	446.2656	1.32651	449.7934
$\frac{17}{32}$	1.32313	442.8613	1.32485	446.3757	1.32656	449.9039
$\frac{9}{16}$	1.32319	442.9709	1.32490	446.4857	1.32661	450.0144
$\frac{19}{32}$	1.32324	443.0806	1.32496	446.5958	1.32667	450.1248
$\frac{5}{8}$	1.32330	443.1902	1.32501	446.7058	1.32672	450.2354
$\frac{21}{32}$	1.32335	443.2999	1.32506	446.8159	1.32677	450.3459
$\frac{11}{16}$	1.32340	443.4095	1.32512	446.9260	1.32683	450.4564
$\frac{23}{32}$	1.32346	443.5192	1.32517	447.0361	1.32688	450.5670
$\frac{3}{4}$	1.32351	443.6289	1.32522	447.1463	1.32693	450.6775
$\frac{25}{32}$	1.32356	443.7386	1.32528	447.2564	1.32699	450.7881
$\frac{13}{16}$	1.32362	443.8483	1.32533	447.3666	1.32704	450.8987
$\frac{27}{32}$	1.32367	443.9581	1.32539	447.4767	1.32709	451.0093
$\frac{7}{8}$	1.32372	444.0678	1.32544	447.5869	1.32715	451.1199
$\frac{29}{32}$	1.32378	444.1776	1.32549	447.6971	1.32720	451.2305
$\frac{15}{16}$	1.32383	444.2874	1.32555	447.8073	1.32725	451.3412
$\frac{31}{32}$	1.32389	444.3971	1.32560	447.9175	1.32731	451.4518
1	1.32394	444.5069	1.32565	448.0278	1.32736	451.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.32736	451.5625	1.32906	455.1111	1.33075	458.6736
$\frac{1}{32}$	1.32741	451.6732	1.32911	455.2222	1.33080	458.7852
$\frac{1}{16}$	1.32747	451.7839	1.32916	455.3334	1.33086	458.8967
$\frac{3}{32}$	1.32752	451.8946	1.32922	455.4445	1.33091	459.0083
$\frac{1}{8}$	1.32757	452.0053	1.32927	455.5557	1.33096	459.1199
$\frac{5}{32}$	1.32762	452.1161	1.32932	455.6668	1.33102	459.2315
$\frac{3}{16}$	1.32768	452.2268	1.32938	455.7780	1.33107	459.3431
$\frac{7}{32}$	1.32773	452.3376	1.32943	455.8892	1.33112	459.4548
$\frac{1}{4}$	1.32778	452.4484	1.32948	456.0004	1.33117	459.5664
$\frac{9}{32}$	1.32784	452.5591	1.32954	456.1117	1.33123	459.6781
$\frac{5}{16}$	1.32789	452.6699	1.32959	456.2229	1.33128	459.7897
$\frac{11}{32}$	1.32794	452.7808	1.32964	456.3342	1.33133	459.9014
$\frac{3}{8}$	1.32800	452.8916	1.32969	456.4454	1.33139	460.0131
$\frac{13}{32}$	1.32805	453.0024	1.32975	456.5567	1.33144	460.1248
$\frac{7}{16}$	1.32810	453.1133	1.32980	456.6680	1.33149	460.2366
$\frac{15}{32}$	1.32816	453.2242	1.32985	456.7793	1.33154	460.3483
$\frac{1}{2}$	1.32821	453.3351	1.32991	456.8906	1.33160	460.4601
$\frac{17}{32}$	1.32826	453.4460	1.32996	457.0020	1.33165	460.5718
$\frac{9}{16}$	1.32832	453.5569	1.33001	457.1133	1.33170	460.6836
$\frac{19}{32}$	1.32837	453.6678	1.33006	457.2247	1.33175	460.7954
$\frac{5}{8}$	1.32842	453.7788	1.33012	457.3360	1.33181	460.9072
$\frac{21}{32}$	1.32848	453.8897	1.33017	457.4474	1.33186	461.0190
$\frac{11}{16}$	1.32853	454.0007	1.33022	457.5588	1.33191	461.1309
$\frac{23}{32}$	1.32858	454.1117	1.33028	457.6703	1.33196	461.2427
$\frac{3}{4}$	1.32863	454.2227	1.33033	457.7817	1.33202	461.3546
$\frac{25}{32}$	1.32869	454.3337	1.33038	457.8931	1.33207	461.4665
$\frac{13}{16}$	1.32874	454.4447	1.33043	458.0046	1.33212	461.5784
$\frac{27}{32}$	1.32879	454.5557	1.33049	458.1161	1.33218	461.6903
$\frac{7}{8}$	1.32885	454.6668	1.33054	458.2275	1.33223	461.8022
$\frac{29}{32}$	1.32890	454.7778	1.33059	458.3390	1.33228	461.9141
$\frac{15}{16}$	1.32895	454.8889	1.33065	458.4505	1.33233	462.0261
$\frac{31}{32}$	1.32901	455.0000	1.33070	458.5621	1.33239	462.1380
1	1.32906	455.1111	1.33075	458.6736	1.33244	462.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.33244	462.2500	1.33412	465.8403	1.33579	469.4444
$\frac{1}{32}$	1.33249	462.3620	1.33417	465.9527	1.33584	469.5573
$\frac{1}{16}$	1.33254	462.4740	1.33422	466.0651	1.33590	469.6702
$\frac{3}{32}$	1.33260	462.5860	1.33428	466.1776	1.33595	469.7830
$\frac{1}{8}$	1.33265	462.6980	1.33433	466.2900	1.33600	469.8959
$\frac{5}{32}$	1.33270	462.8101	1.33438	466.4025	1.33605	470.0088
$\frac{3}{16}$	1.33275	462.9221	1.33443	466.5150	1.33611	470.1218
$\frac{7}{32}$	1.33281	463.0342	1.33449	466.6275	1.33616	470.2347
$\frac{1}{4}$	1.33286	463.1463	1.33454	466.7400	1.33621	470.3477
$\frac{9}{32}$	1.33291	463.2584	1.33459	466.8525	1.33626	470.4606
$\frac{5}{16}$	1.33296	463.3705	1.33464	466.9651	1.33631	470.5736
$\frac{11}{32}$	1.33302	463.4826	1.33469	467.0776	1.33637	470.6866
$\frac{3}{8}$	1.33307	463.5947	1.33475	467.1902	1.33642	470.7996
$\frac{13}{32}$	1.33312	463.7069	1.33480	467.3028	1.33647	470.9126
$\frac{7}{16}$	1.33317	463.8190	1.33485	467.4154	1.33652	471.0256
$\frac{15}{32}$	1.33323	463.9312	1.33490	467.5280	1.33657	471.1387
$\frac{1}{2}$	1.33328	464.0434	1.33496	467.6406	1.33663	471.2517
$\frac{17}{32}$	1.33333	464.1556	1.33501	467.7533	1.33668	471.3648
$\frac{9}{16}$	1.33338	464.2678	1.33506	467.8659	1.33673	471.4779
$\frac{19}{32}$	1.33344	464.3801	1.33511	467.9786	1.33678	471.5910
$\frac{5}{8}$	1.33349	464.4923	1.33517	468.0913	1.33683	471.7041
$\frac{21}{32}$	1.33354	464.6046	1.33522	468.2039	1.33689	471.8172
$\frac{11}{16}$	1.33359	464.7168	1.33527	468.3167	1.33694	471.9304
$\frac{23}{32}$	1.33365	464.8291	1.33532	468.4294	1.33699	472.0435
$\frac{3}{4}$	1.33370	464.9414	1.33537	468.5421	1.33704	472.1567
$\frac{25}{32}$	1.33375	465.0537	1.33543	468.6548	1.33710	472.2699
$\frac{13}{16}$	1.33380	465.1660	1.33548	468.7676	1.33715	472.3831
$\frac{27}{32}$	1.33386	465.2784	1.33553	468.8804	1.33720	472.4963
$\frac{7}{8}$	1.33391	465.3907	1.33558	468.9932	1.33725	472.6095
$\frac{29}{32}$	1.33396	465.5031	1.33564	469.1060	1.33730	472.7227
$\frac{15}{16}$	1.33401	465.6155	1.33569	469.2188	1.33736	472.8360
$\frac{31}{32}$	1.33407	465.7279	1.33574	469.3316	1.33741	472.9492
1	1.33412	465.8403	1.33579	469.4444	1.33746	473.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.33746	473.0625	1.33912	476.6944	1.34077	480.3403
$\frac{1}{32}$	1.33751	473.1758	1.33917	476.8082	1.34083	480.4544
$\frac{1}{16}$	1.33756	473.2891	1.33922	476.9219	1.34088	480.5686
$\frac{3}{32}$	1.33762	473.4024	1.33928	477.0357	1.34093	480.6828
$\frac{1}{8}$	1.33767	473.5157	1.33933	477.1494	1.34098	480.7970
$\frac{5}{32}$	1.33772	473.6291	1.33938	477.2632	1.34103	480.9112
$\frac{3}{16}$	1.33777	473.7424	1.33943	477.3770	1.34108	481.0254
$\frac{7}{32}$	1.33782	473.8558	1.33948	477.4908	1.34114	481.1397
$\frac{1}{4}$	1.33788	473.9692	1.33953	477.6046	1.34119	481.2539
$\frac{9}{32}$	1.33793	474.0826	1.33959	477.7184	1.34124	481.3682
$\frac{5}{16}$	1.33798	474.1960	1.33964	477.8323	1.34129	481.4824
$\frac{11}{32}$	1.33803	474.3094	1.33969	477.9461	1.34134	481.5967
$\frac{3}{8}$	1.33808	474.4229	1.33974	478.0600	1.34139	481.7110
$\frac{13}{32}$	1.33813	474.5363	1.33979	478.1739	1.34144	481.8254
$\frac{7}{16}$	1.33819	474.6498	1.33984	478.2878	1.34150	481.9397
$\frac{15}{32}$	1.33824	474.7632	1.33990	478.4017	1.34155	482.0540
$\frac{1}{2}$	1.33829	474.8767	1.33995	478.5156	1.34160	482.1684
$\frac{17}{32}$	1.33834	474.9902	1.34000	478.6296	1.34165	482.2828
$\frac{9}{16}$	1.33839	475.1038	1.34005	478.7435	1.34170	482.3972
$\frac{19}{32}$	1.33845	475.2173	1.34010	478.8575	1.34175	482.5116
$\frac{5}{8}$	1.33850	475.3308	1.34015	478.9715	1.34181	482.6260
$\frac{21}{32}$	1.33855	475.4444	1.34021	479.0855	1.34186	482.7404
$\frac{11}{16}$	1.33860	475.5580	1.34026	479.1995	1.34191	482.8548
$\frac{23}{32}$	1.33865	475.6716	1.34031	479.3135	1.34196	482.9693
$\frac{3}{4}$	1.33871	475.7852	1.34036	479.4275	1.34201	483.0838
$\frac{25}{32}$	1.33876	475.8988	1.34041	479.5416	1.34206	483.1982
$\frac{13}{16}$	1.33881	476.0124	1.34046	479.6556	1.34211	483.3127
$\frac{27}{32}$	1.33886	476.1260	1.34052	479.7697	1.34217	483.4273
$\frac{7}{8}$	1.33891	476.2397	1.34057	479.8838	1.34222	483.5418
$\frac{29}{32}$	1.33896	476.3534	1.34062	479.9979	1.34227	483.6563
$\frac{15}{16}$	1.33902	476.4670	1.34067	480.1120	1.34232	483.7709
$\frac{31}{32}$	1.33907	476.5807	1.34072	480.2261	1.34237	483.8854
1	1.33912	476.6944	1.34077	480.3403	1.34242	484.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.34242	484.0000	1.34406	487.6736	1.34570	491.3611
$\frac{1}{32}$	1.34247	484.1146	1.34412	487.7886	1.34575	491.4766
$\frac{1}{16}$	1.34253	484.2292	1.34417	487.9037	1.34580	491.5920
$\frac{3}{32}$	1.34258	484.3438	1.34422	488.0187	1.34585	491.7075
$\frac{1}{8}$	1.34263	484.4584	1.34427	488.1338	1.34590	491.8230
$\frac{5}{32}$	1.34268	484.5731	1.34432	488.2489	1.34596	491.9385
$\frac{3}{16}$	1.34273	484.6877	1.34437	488.3640	1.34601	492.0541
$\frac{7}{32}$	1.34278	484.8024	1.34442	488.4791	1.34606	492.1696
$\frac{1}{4}$	1.34283	484.9171	1.34447	488.5942	1.34611	492.2852
$\frac{9}{32}$	1.34289	485.0318	1.34453	488.7093	1.34616	492.4007
$\frac{5}{16}$	1.34294	485.1465	1.34458	488.8245	1.34621	492.5163
$1\frac{1}{32}$	1.34299	485.2612	1.34463	488.9396	1.34626	492.6319
$\frac{3}{8}$	1.34304	485.3760	1.34468	489.0548	1.34631	492.7475
$1\frac{3}{32}$	1.34309	485.4907	1.34473	489.1700	1.34636	492.8631
$\frac{7}{16}$	1.34314	485.6055	1.34478	489.2852	1.34641	492.9788
$1\frac{5}{32}$	1.34319	485.7203	1.34483	489.4004	1.34647	493.0944
$\frac{1}{2}$	1.34324	485.8351	1.34488	489.5156	1.34652	493.2101
$1\frac{7}{32}$	1.34330	485.9499	1.34493	489.6309	1.34657	493.3257
$\frac{9}{16}$	1.34335	486.0647	1.34499	489.7461	1.34662	493.4414
$1\frac{9}{32}$	1.34340	486.1795	1.34504	489.8614	1.34667	493.5571
$\frac{5}{8}$	1.34345	486.2944	1.34509	489.9767	1.34672	493.6729
$2\frac{1}{32}$	1.34350	486.4092	1.34514	490.0920	1.34677	493.7886
$1\frac{11}{16}$	1.34355	486.5241	1.34519	490.2073	1.34682	493.9043
$2\frac{3}{32}$	1.34360	486.6390	1.34524	490.3226	1.34687	494.0201
$\frac{3}{4}$	1.34365	486.7539	1.34529	490.4379	1.34692	494.1359
$2\frac{5}{32}$	1.34371	486.8688	1.34534	490.5533	1.34697	494.2516
$1\frac{13}{16}$	1.34376	486.9838	1.34539	490.6686	1.34702	494.3674
$2\frac{7}{32}$	1.34381	487.0987	1.34545	490.7840	1.34708	494.4832
$\frac{7}{8}$	1.34386	487.2136	1.34550	490.8994	1.34713	494.5991
$2\frac{9}{32}$	1.34391	487.3286	1.34555	491.0148	1.34718	494.7149
$1\frac{15}{16}$	1.34396	487.4436	1.34560	491.1302	1.34723	494.8308
$3\frac{1}{32}$	1.34401	487.5586	1.34565	491.2457	1.34728	494.9466
1	1.34406	487.6736	1.34570	491.3611	1.34733	495.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.34733	495.0625	1.34895	498.7778	1.35057	502.5069
$\frac{1}{32}$	1.34738	495.1784	1.34900	498.8941	1.35062	502.6237
$\frac{1}{16}$	1.34743	495.2943	1.34905	499.0104	1.35067	502.7405
$\frac{3}{32}$	1.34748	495.4102	1.34911	499.1268	1.35072	502.8573
$\frac{1}{8}$	1.34753	495.5262	1.34916	499.2432	1.35077	502.9741
$\frac{5}{32}$	1.34758	495.6421	1.34921	499.3595	1.35082	503.0909
$\frac{3}{16}$	1.34763	495.7581	1.34926	499.4759	1.35087	503.2077
$\frac{7}{32}$	1.34769	495.8740	1.34931	499.5923	1.35092	503.3246
$\frac{1}{4}$	1.34774	495.9900	1.34936	499.7088	1.35097	503.4414
$\frac{9}{32}$	1.34779	496.1060	1.34941	499.8252	1.35102	503.5583
$\frac{5}{16}$	1.34784	496.2220	1.34946	499.9417	1.35108	503.6752
$\frac{11}{32}$	1.34789	496.3381	1.34951	500.0581	1.35113	503.7921
$\frac{3}{8}$	1.34794	496.4541	1.34956	500.1746	1.35118	503.9090
$\frac{13}{32}$	1.34799	496.5702	1.34961	500.2911	1.35123	504.0259
$\frac{7}{16}$	1.34804	496.6862	1.34966	500.4076	1.35128	504.1428
$\frac{15}{32}$	1.34809	496.8023	1.34971	500.5241	1.35133	504.2598
$\frac{1}{2}$	1.34814	496.9184	1.34976	500.6406	1.35138	504.3767
$\frac{17}{32}$	1.34819	497.0345	1.34981	500.7572	1.35143	504.4937
$\frac{9}{16}$	1.34824	497.1506	1.34986	500.8737	1.35148	504.6107
$\frac{19}{32}$	1.34829	497.2668	1.34991	500.9903	1.35153	504.7277
$\frac{5}{8}$	1.34835	497.3829	1.34997	501.1069	1.35158	504.8447
$\frac{21}{32}$	1.34840	497.4991	1.35002	501.2235	1.35163	504.9618
$\frac{11}{16}$	1.34845	497.6153	1.35007	501.3401	1.35168	505.0788
$\frac{23}{32}$	1.34850	497.7315	1.35012	501.4567	1.35173	505.1959
$\frac{3}{4}$	1.34855	497.8477	1.35017	501.5734	1.35178	505.3129
$\frac{25}{32}$	1.34860	497.9639	1.35022	501.6900	1.35183	505.4300
$\frac{13}{16}$	1.34865	498.0801	1.35027	501.8067	1.35188	505.5471
$\frac{27}{32}$	1.34870	498.1963	1.35032	501.9233	1.35193	505.6642
$\frac{7}{8}$	1.34875	498.3126	1.35037	502.0400	1.35198	505.7814
$\frac{29}{32}$	1.34880	498.4289	1.35042	502.1567	1.35203	505.8985
$\frac{15}{16}$	1.34885	498.5452	1.35047	502.2735	1.35208	506.0157
$\frac{31}{32}$	1.34890	498.6615	1.35052	502.3902	1.35213	506.1328
1	1.34895	498.7778	1.35057	502.5069	1.35218	506.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.35218	506.2500	1.35379	510.0069	1.35539	513.7778
$\frac{1}{32}$	1.35223	506.3672	1.35384	510.1246	1.35544	513.8958
$\frac{1}{16}$	1.35228	506.4844	1.35389	510.2422	1.35549	514.0139
$\frac{3}{32}$	1.35233	506.6016	1.35394	510.3599	1.35554	514.1320
$\frac{1}{8}$	1.35238	506.7189	1.35399	510.4775	1.35559	514.2501
$\frac{5}{32}$	1.35243	506.8361	1.35404	510.5952	1.35564	514.3682
$\frac{3}{16}$	1.35248	506.9534	1.35409	510.7129	1.35569	514.4864
$\frac{7}{32}$	1.35253	507.0706	1.35414	510.8306	1.35574	514.6045
$\frac{1}{4}$	1.35258	507.1879	1.35419	510.9484	1.35579	514.7227
$\frac{9}{32}$	1.35263	507.3052	1.35424	511.0661	1.35584	514.8408
$\frac{5}{16}$	1.35268	507.4226	1.35429	511.1838	1.35589	514.9590
$\frac{11}{32}$	1.35274	507.5399	1.35434	511.3016	1.35594	515.0772
$\frac{3}{8}$	1.35279	507.6572	1.35439	511.4194	1.35599	515.1954
$\frac{13}{32}$	1.35284	507.7746	1.35444	511.5372	1.35604	515.3136
$\frac{7}{16}$	1.35289	507.8920	1.35449	511.6550	1.35609	515.4319
$\frac{15}{32}$	1.35294	508.0093	1.35454	511.7728	1.35614	515.5501
$\frac{1}{2}$	1.35299	508.1267	1.35459	511.8906	1.35619	515.6684
$\frac{17}{32}$	1.35304	508.2441	1.35464	512.0085	1.35624	515.7867
$\frac{9}{16}$	1.35309	508.3616	1.35469	512.1263	1.35628	515.9050
$\frac{19}{32}$	1.35314	508.4790	1.35474	512.2442	1.35633	516.0233
$\frac{5}{8}$	1.35319	508.5965	1.35479	512.3621	1.35638	516.1416
$\frac{21}{32}$	1.35324	508.7139	1.35484	512.4800	1.35643	516.2599
$\frac{11}{16}$	1.35329	508.8314	1.35489	512.5979	1.35648	516.3783
$\frac{23}{32}$	1.35334	508.9489	1.35494	512.7158	1.35653	516.4966
$\frac{3}{4}$	1.35339	509.0664	1.35499	512.8338	1.35658	516.6150
$\frac{25}{32}$	1.35344	509.1839	1.35504	512.9517	1.35663	516.7334
$\frac{13}{16}$	1.35349	509.3015	1.35509	513.0697	1.35668	516.8518
$\frac{27}{32}$	1.35354	509.4190	1.35514	513.1877	1.35673	516.9702
$\frac{7}{8}$	1.35359	509.5366	1.35519	513.3057	1.35678	517.0887
$\frac{29}{32}$	1.35364	509.6541	1.35524	513.4237	1.35683	517.2071
$\frac{15}{16}$	1.35369	509.7717	1.35529	513.5417	1.35688	517.3255
$\frac{31}{32}$	1.35374	509.8893	1.35534	513.6597	1.35693	517.4440
1	1.35379	510.0069	1.35539	513.7778	1.35698	517.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.35698	517.5625	1.35857	521.3611	1.36015	525.1736
$\frac{1}{32}$	1.35703	517.6810	1.35862	521.4800	1.36020	525.2930
$\frac{1}{16}$	1.35708	517.7995	1.35867	521.5990	1.36025	525.4124
$\frac{3}{32}$	1.35713	517.9180	1.35872	521.7179	1.36030	525.5317
$\frac{1}{8}$	1.35718	518.0366	1.35877	521.8369	1.36035	525.6512
$\frac{5}{32}$	1.35723	518.1551	1.35882	521.9559	1.36040	525.7706
$\frac{3}{16}$	1.35728	518.2737	1.35887	522.0749	1.36045	525.8900
$\frac{7}{32}$	1.35733	518.3923	1.35892	522.1939	1.36050	526.0094
$\frac{1}{4}$	1.35738	518.5109	1.35897	522.3129	1.36055	526.1289
$\frac{9}{32}$	1.35743	518.6295	1.35901	522.4320	1.36060	526.2484
$\frac{5}{16}$	1.35748	518.7481	1.35906	522.5510	1.36064	526.3679
$\frac{11}{32}$	1.35753	518.8667	1.35911	522.6701	1.36069	526.4874
$\frac{3}{8}$	1.35758	518.9854	1.35916	522.7892	1.36074	526.6069
$\frac{13}{32}$	1.35763	519.1040	1.35921	522.9083	1.36079	526.7264
$\frac{7}{16}$	1.35768	519.2227	1.35926	523.0274	1.36084	526.8459
$\frac{15}{32}$	1.35773	519.3414	1.35931	523.1465	1.36089	526.9655
$\frac{1}{2}$	1.35778	519.4601	1.35936	523.2656	1.36094	527.0851
$\frac{17}{32}$	1.35783	519.5788	1.35941	523.3848	1.36099	527.2047
$\frac{9}{16}$	1.35788	519.6975	1.35946	523.5039	1.36104	527.3242
$\frac{19}{32}$	1.35792	519.8163	1.35951	523.6231	1.36109	527.4439
$\frac{5}{8}$	1.35797	519.9350	1.35956	523.7423	1.36114	527.5635
$\frac{21}{32}$	1.35802	520.0538	1.35961	523.8615	1.36119	527.6831
$\frac{11}{16}$	1.35807	520.1726	1.35966	523.9807	1.36124	527.8028
$\frac{23}{32}$	1.35812	520.2913	1.35971	524.0999	1.36129	527.9224
$\frac{3}{4}$	1.35817	520.4102	1.35976	524.2192	1.36133	528.0421
$\frac{25}{32}$	1.35822	520.5290	1.35981	524.3384	1.36138	528.1618
$\frac{13}{16}$	1.35827	520.6478	1.35986	524.4577	1.36143	528.2815
$\frac{27}{32}$	1.35832	520.7667	1.35990	524.5770	1.36148	528.4012
$\frac{7}{8}$	1.35837	520.8855	1.35995	524.6963	1.36153	528.5209
$\frac{29}{32}$	1.35842	521.0044	1.36000	524.8156	1.36158	528.6407
$\frac{15}{16}$	1.35847	521.1233	1.36005	524.9349	1.36163	528.7604
$\frac{31}{32}$	1.35852	521.2422	1.36010	525.0543	1.36168	528.8802
1	1.35857	521.3611	1.36015	525.1736	1.36173	529.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.36173	529.0000	1.36330	532.8403	1.36486	536.6944
$\frac{1}{8}$	1.36178	529.1198	1.36335	532.9605	1.36491	536.8151
$\frac{1}{16}$	1.36183	529.2396	1.36340	533.0808	1.36496	536.9358
$\frac{3}{32}$	1.36188	529.3594	1.36345	533.2010	1.36501	537.0565
$\frac{1}{4}$	1.36192	529.4793	1.36349	533.3213	1.36506	537.1772
$\frac{5}{32}$	1.36197	529.5991	1.36354	533.4416	1.36511	537.2979
$\frac{3}{16}$	1.36202	529.7190	1.36359	533.5619	1.36516	537.4186
$\frac{7}{32}$	1.36207	529.8389	1.36364	533.6822	1.36521	537.5394
$\frac{1}{2}$	1.36212	529.9588	1.36369	533.8025	1.36525	537.6602
$\frac{9}{32}$	1.36217	530.0787	1.36374	533.9229	1.36530	537.7809
$\frac{5}{16}$	1.36222	530.1986	1.36379	534.0432	1.36535	537.9017
$\frac{11}{32}$	1.36227	530.3185	1.36384	534.1636	1.36540	538.0225
$\frac{3}{8}$	1.36232	530.4385	1.36389	534.2840	1.36545	538.1433
$\frac{13}{32}$	1.36237	530.5584	1.36393	534.4044	1.36550	538.2642
$\frac{7}{16}$	1.36242	530.6784	1.36398	534.5248	1.36555	538.3850
$\frac{15}{32}$	1.36246	530.7984	1.36403	534.6452	1.36560	538.5059
$\frac{1}{2}$	1.36251	530.9184	1.36408	534.7656	1.36564	538.6267
$\frac{17}{32}$	1.36256	531.0384	1.36413	534.8861	1.36569	538.7476
$\frac{9}{16}$	1.36261	531.1584	1.36418	535.0065	1.36574	538.8685
$\frac{19}{32}$	1.36266	531.2785	1.36423	535.1270	1.36579	538.9894
$\frac{5}{8}$	1.36271	531.3985	1.36428	535.2475	1.36584	539.1104
$\frac{21}{32}$	1.36276	531.5186	1.36433	535.3680	1.36589	539.2313
$\frac{11}{16}$	1.36281	531.6387	1.36438	535.4885	1.36594	539.3522
$\frac{23}{32}$	1.36286	531.7588	1.36442	535.6091	1.36598	539.4732
$\frac{3}{4}$	1.36291	531.8789	1.36447	535.7296	1.36603	539.5942
$\frac{25}{32}$	1.36296	531.9990	1.36452	535.8502	1.36608	539.7152
$\frac{13}{16}$	1.36300	532.1192	1.36457	535.9707	1.36613	539.8362
$\frac{27}{32}$	1.36305	532.2393	1.36462	536.0913	1.36618	539.9572
$\frac{7}{8}$	1.36310	532.3595	1.36467	536.2119	1.36623	540.0782
$\frac{29}{32}$	1.36315	532.4797	1.36472	536.3325	1.36628	540.1993
$\frac{15}{16}$	1.36320	532.5999	1.36477	536.4532	1.36633	540.3203
$\frac{31}{32}$	1.36325	532.7201	1.36481	536.5738	1.36637	540.4414
1	1.36330	532.8403	1.36486	536.6944	1.36642	540.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.36642	540.5625	1.36798	544.4444	1.36953	548.3403
$\frac{1}{32}$	1.36647	540.6836	1.36803	544.5660	1.36957	548.4622
$\frac{1}{16}$	1.36652	540.8047	1.36807	544.6875	1.36962	548.5842
$\frac{3}{32}$	1.36657	540.9258	1.36812	544.8091	1.36967	548.7062
$\frac{1}{8}$	1.36662	541.0470	1.36817	544.9307	1.36972	548.8282
$\frac{5}{32}$	1.36667	541.1681	1.36822	545.0523	1.36977	548.9503
$\frac{3}{16}$	1.36671	541.2893	1.36827	545.1739	1.36981	549.0723
$\frac{7}{32}$	1.36676	541.4105	1.36832	545.2955	1.36986	549.1943
$\frac{1}{4}$	1.36681	541.5317	1.36836	545.4171	1.36991	549.3164
$\frac{9}{32}$	1.36686	541.6529	1.36841	545.5387	1.36996	549.4385
$\frac{5}{16}$	1.36691	541.7741	1.36846	545.6604	1.37001	549.5606
$\frac{11}{32}$	1.36696	541.8954	1.36851	545.7821	1.37006	549.6827
$\frac{3}{8}$	1.36701	542.0166	1.36856	545.9038	1.37010	549.8048
$\frac{13}{32}$	1.36705	542.1379	1.36861	546.0255	1.37015	549.9269
$\frac{7}{16}$	1.36710	542.2591	1.36865	546.1472	1.37020	550.0491
$\frac{15}{32}$	1.36715	542.3804	1.36870	546.2689	1.37025	550.1712
$\frac{1}{2}$	1.36720	542.5017	1.36875	546.3906	1.37030	550.2934
$\frac{17}{32}$	1.36725	542.6231	1.36880	546.5124	1.37035	550.4156
$\frac{9}{16}$	1.36730	542.7444	1.36885	546.6341	1.37039	550.5378
$\frac{19}{32}$	1.36735	542.8657	1.36890	546.7559	1.37044	550.6600
$\frac{5}{8}$	1.36739	542.9871	1.36895	546.8777	1.37049	550.7822
$\frac{21}{32}$	1.36744	543.1085	1.36899	546.9995	1.37054	550.9045
$\frac{11}{16}$	1.36749	543.2298	1.36904	547.1213	1.37059	551.0267
$\frac{23}{32}$	1.36754	543.3512	1.36909	547.2432	1.37063	551.1490
$\frac{3}{4}$	1.36759	543.4727	1.36914	547.3650	1.37068	551.2713
$\frac{25}{32}$	1.36764	543.5941	1.36919	547.4869	1.37073	551.3936
$\frac{13}{16}$	1.36769	543.7155	1.36924	547.6088	1.37078	551.5159
$\frac{27}{32}$	1.36773	543.8370	1.36928	547.7306	1.37083	551.6382
$\frac{7}{8}$	1.36778	543.9584	1.36933	547.8525	1.37088	551.7605
$\frac{29}{32}$	1.36783	544.0799	1.36938	547.9745	1.37092	551.8829
$\frac{15}{16}$	1.36788	544.2014	1.36943	548.0964	1.37097	552.0052
$\frac{31}{32}$	1.36793	544.3229	1.36948	548.2183	1.37102	552.1276
1	1.36798	544.4444	1.36953	548.3403	1.37107	552.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.37107	552.2500	1.37261	556.1736	1.37414	560.1111
$\frac{1}{32}$	1.37112	552.3724	1.37265	556.2964	1.37418	560.2344
$\frac{1}{16}$	1.37116	552.4948	1.37270	556.4193	1.37423	560.3577
$\frac{3}{32}$	1.37121	552.6172	1.37275	556.5422	1.37428	560.4810
$\frac{1}{8}$	1.37126	552.7397	1.37280	556.6650	1.37433	560.6043
$\frac{5}{32}$	1.37131	552.8621	1.37284	556.7879	1.37438	560.7276
$\frac{3}{16}$	1.37136	552.9846	1.37289	556.9108	1.37442	560.8509
$\frac{7}{32}$	1.37140	553.1071	1.37294	557.0338	1.37447	560.9743
$\frac{1}{4}$	1.37145	553.2296	1.37299	557.1567	1.37452	561.0977
$\frac{9}{32}$	1.37150	553.3521	1.37304	557.2796	1.37457	561.2210
$\frac{5}{16}$	1.37155	553.4746	1.37308	557.4026	1.37461	561.3444
$\frac{11}{32}$	1.37160	553.5972	1.37313	557.5256	1.37466	561.4678
$\frac{3}{8}$	1.37164	553.7197	1.37318	557.6485	1.37471	561.5913
$\frac{13}{32}$	1.37169	553.8423	1.37323	557.7715	1.37476	561.7147
$\frac{7}{16}$	1.37174	553.9649	1.37328	557.8946	1.37481	561.8381
$\frac{15}{32}$	1.37179	554.0875	1.37332	558.0176	1.37485	561.9616
$\frac{1}{2}$	1.37184	554.2101	1.37337	558.1406	1.37490	562.0851
$\frac{17}{32}$	1.37189	554.3327	1.37342	558.2637	1.37495	562.2086
$\frac{9}{16}$	1.37193	554.4553	1.37347	558.3867	1.37500	562.3321
$\frac{19}{32}$	1.37198	554.5780	1.37352	558.5098	1.37504	562.4556
$\frac{5}{8}$	1.37203	554.7006	1.37356	558.6329	1.37509	562.5791
$\frac{21}{32}$	1.37208	554.8233	1.37361	558.7560	1.37514	562.7026
$\frac{11}{16}$	1.37213	554.9460	1.37366	558.8792	1.37519	562.8262
$\frac{23}{32}$	1.37217	555.0687	1.37371	559.0023	1.37523	562.9498
$\frac{3}{4}$	1.37222	555.1914	1.37375	559.1254	1.37528	563.0734
$\frac{25}{32}$	1.37227	555.3141	1.37380	559.2486	1.37533	563.1969
$\frac{13}{16}$	1.37232	555.4369	1.37385	559.3718	1.37538	563.3206
$\frac{27}{32}$	1.37237	555.5596	1.37390	559.4950	1.37543	563.4442
$\frac{7}{8}$	1.37241	555.6824	1.37395	559.6182	1.37547	563.5678
$\frac{29}{32}$	1.37246	555.8052	1.37399	559.7414	1.37552	563.6915
$\frac{15}{16}$	1.37251	555.9280	1.37404	559.8646	1.37557	563.8151
$\frac{31}{32}$	1.37256	556.0508	1.37409	559.9879	1.37562	563.9388
1	1.37261	556.1736	1.37414	560.1111	1.37566	564.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.37566	564.0625	1.37718	568.0278	1.37870	572.0069
$\frac{1}{32}$	1.37571	564.1862	1.37723	568.1519	1.37875	572.1315
$\frac{1}{16}$	1.37576	564.3099	1.37728	568.2761	1.37880	572.2561
$\frac{3}{32}$	1.37581	564.4337	1.37733	568.4002	1.37884	572.3807
$\frac{1}{8}$	1.37585	564.5574	1.37737	568.5244	1.37889	572.5053
$\frac{5}{32}$	1.37590	564.6812	1.37742	568.6486	1.37894	572.6299
$\frac{3}{16}$	1.37595	564.8049	1.37747	568.7728	1.37898	572.7546
$\frac{7}{32}$	1.37600	564.9287	1.37752	568.8970	1.37903	572.8792
$\frac{1}{4}$	1.37604	565.0525	1.37756	569.0213	1.37908	573.0039
$\frac{9}{32}$	1.37609	565.1763	1.37761	569.1455	1.37913	573.1286
$\frac{5}{16}$	1.37614	565.3002	1.37766	569.2698	1.37917	573.2533
$\frac{11}{32}$	1.37619	565.4240	1.37771	569.3940	1.37922	573.3780
$\frac{3}{8}$	1.37623	565.5479	1.37775	569.5183	1.37927	573.5027
$\frac{13}{32}$	1.37628	565.6717	1.37780	569.6426	1.37931	573.6274
$\frac{7}{16}$	1.37633	565.7956	1.37785	569.7670	1.37936	573.7522
$\frac{15}{32}$	1.37638	565.9195	1.37790	569.8913	1.37941	573.8770
$\frac{1}{2}$	1.37642	566.0434	1.37794	570.0156	1.37946	574.0017
$\frac{17}{32}$	1.37647	566.1673	1.37799	570.1400	1.37950	574.1265
$\frac{9}{16}$	1.37652	566.2913	1.37804	570.2644	1.37955	574.2513
$\frac{19}{32}$	1.37657	566.4152	1.37809	570.3887	1.37960	574.3761
$\frac{5}{8}$	1.37661	566.5392	1.37813	570.5131	1.37965	574.5010
$\frac{21}{32}$	1.37666	566.6631	1.37818	570.6375	1.37969	574.6258
$\frac{11}{16}$	1.37671	566.7871	1.37823	570.7620	1.37974	574.7507
$\frac{23}{32}$	1.37676	566.9111	1.37827	570.8864	1.37979	574.8755
$\frac{3}{4}$	1.37680	567.0352	1.37832	571.0109	1.37983	575.0004
$\frac{25}{32}$	1.37685	567.1592	1.37837	571.1353	1.37988	575.1253
$\frac{13}{16}$	1.37690	567.2832	1.37842	571.2598	1.37993	575.2502
$\frac{27}{32}$	1.37695	567.4073	1.37846	571.3843	1.37998	575.3752
$\frac{7}{8}$	1.37699	567.5314	1.37851	571.5088	1.38002	575.5001
$\frac{29}{32}$	1.37704	567.6554	1.37856	571.6333	1.38007	575.6251
$\frac{15}{16}$	1.37709	567.7795	1.37861	571.7578	1.38012	575.7500
$\frac{31}{32}$	1.37714	567.9037	1.37865	571.8824	1.38016	575.8750
1	1.37718	568.0278	1.37870	572.0069	1.38021	576.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.38021	576.0000	1.38172	580.0069	1.38322	584.0278
$\frac{1}{32}$	1.38026	576.1250	1.38176	580.1324	1.38326	584.1537
$\frac{1}{16}$	1.38031	576.2500	1.38181	580.2578	1.38331	584.2795
$\frac{3}{32}$	1.38035	576.3751	1.38186	580.3833	1.38336	584.4054
$\frac{1}{8}$	1.38040	576.5001	1.38190	580.5088	1.38340	584.5314
$\frac{5}{32}$	1.38045	576.6252	1.38195	580.6343	1.38345	584.6573
$\frac{3}{16}$	1.38049	576.7502	1.38200	580.7598	1.38350	584.7832
$\frac{7}{32}$	1.38054	576.8753	1.38205	580.8853	1.38354	584.9092
$\frac{1}{4}$	1.38059	577.0004	1.38209	581.0109	1.38359	585.0352
$\frac{9}{32}$	1.38064	577.1255	1.38214	581.1364	1.38364	585.1611
$\frac{5}{16}$	1.38068	577.2507	1.38219	581.2620	1.38368	585.2871
$\frac{11}{32}$	1.38073	577.3758	1.38223	581.3875	1.38373	585.4131
$\frac{3}{8}$	1.38078	577.5010	1.38228	581.5131	1.38378	585.5392
$\frac{13}{32}$	1.38082	577.6261	1.38233	581.6387	1.38382	585.6652
$\frac{7}{16}$	1.38087	577.7513	1.38237	581.7644	1.38387	585.7913
$\frac{15}{32}$	1.38092	577.8765	1.38242	581.8900	1.38392	585.9173
$\frac{1}{2}$	1.38096	578.0017	1.38247	582.0156	1.38396	586.0434
$\frac{17}{32}$	1.38101	578.1270	1.38251	582.1413	1.38401	586.1695
$\frac{9}{16}$	1.38106	578.2522	1.38256	582.2670	1.38406	586.2956
$\frac{19}{32}$	1.38111	578.3774	1.38261	582.3926	1.38411	586.4217
$\frac{5}{8}$	1.38115	578.5027	1.38265	582.5183	1.38415	586.5479
$\frac{21}{32}$	1.38120	578.6280	1.38270	582.6440	1.38420	586.6740
$\frac{11}{16}$	1.38125	578.7533	1.38275	582.7698	1.38425	586.8002
$\frac{23}{32}$	1.38129	578.8786	1.38280	582.8955	1.38429	586.9263
$\frac{3}{4}$	1.38134	579.0039	1.38284	583.0213	1.38434	587.0525
$\frac{25}{32}$	1.38139	579.1292	1.38289	583.1470	1.38439	587.1787
$\frac{13}{16}$	1.38143	579.2546	1.38294	583.2728	1.38443	587.3049
$\frac{27}{32}$	1.38148	579.3799	1.38298	583.3986	1.38448	587.4312
$\frac{7}{8}$	1.38153	579.5053	1.38303	583.5244	1.38453	587.5574
$\frac{29}{32}$	1.38158	579.6307	1.38308	583.6502	1.38457	587.6837
$\frac{15}{16}$	1.38162	579.7561	1.38312	583.7761	1.38462	587.8099
$\frac{31}{32}$	1.38167	579.8815	1.38317	583.9019	1.38467	587.9362
1	1.38172	580.0069	1.38322	584.0278	1.38471	588.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.38471	588.0625	1.38620	592.1111	1.38769	596.1736
$\frac{1}{32}$	1.38476	588.1888	1.38625	592.2379	1.38773	596.3008
$\frac{1}{16}$	1.38481	588.3151	1.38629	592.3646	1.38778	596.4280
$\frac{3}{32}$	1.38485	588.4415	1.38634	592.4914	1.38783	596.5552
$\frac{1}{8}$	1.38490	588.5678	1.38639	592.6182	1.38787	596.6824
$\frac{5}{32}$	1.38494	588.6942	1.38643	592.7450	1.38792	596.8096
$\frac{3}{16}$	1.38499	588.8206	1.38648	592.8718	1.38796	596.9369
$\frac{7}{32}$	1.38504	588.9469	1.38653	592.9986	1.38801	597.0641
$\frac{1}{4}$	1.38508	589.0734	1.38657	593.1254	1.38806	597.1914
$\frac{9}{32}$	1.38513	589.1998	1.38662	593.2523	1.38810	597.3187
$\frac{5}{16}$	1.38518	589.3262	1.38667	593.3792	1.38815	597.4460
$\frac{11}{32}$	1.38522	589.4526	1.38671	593.5060	1.38820	597.5733
$\frac{3}{8}$	1.38527	589.5791	1.38676	593.6329	1.38824	597.7006
$\frac{13}{32}$	1.38532	589.7056	1.38681	593.7598	1.38829	597.8280
$\frac{7}{16}$	1.38536	589.8321	1.38685	593.8867	1.38833	597.9553
$\frac{15}{32}$	1.38541	589.9586	1.38690	594.0137	1.38838	598.0827
$\frac{1}{2}$	1.38546	590.0851	1.38694	594.1406	1.38843	598.2101
$\frac{17}{32}$	1.38550	590.2116	1.38699	594.2676	1.38847	598.3375
$\frac{9}{16}$	1.38555	590.3381	1.38704	594.3946	1.38852	598.4649
$\frac{19}{32}$	1.38560	590.4647	1.38708	594.5215	1.38857	598.5923
$\frac{5}{8}$	1.38564	590.5913	1.38713	594.6485	1.38861	598.7197
$\frac{21}{32}$	1.38569	590.7178	1.38718	594.7756	1.38866	598.8472
$\frac{11}{16}$	1.38574	590.8444	1.38722	594.9026	1.38870	598.9746
$\frac{23}{32}$	1.38578	590.9710	1.38727	595.0296	1.38875	599.1021
$\frac{3}{4}$	1.38583	591.0977	1.38732	595.1567	1.38880	599.2296
$\frac{25}{32}$	1.38588	591.2243	1.38736	595.2838	1.38884	599.3571
$\frac{13}{16}$	1.38592	591.3509	1.38741	595.4108	1.38889	599.4846
$\frac{27}{32}$	1.38597	591.4776	1.38745	595.5379	1.38894	599.6121
$\frac{7}{8}$	1.38602	591.6043	1.38750	595.6650	1.38898	599.7397
$\frac{29}{32}$	1.38606	591.7310	1.38755	595.7922	1.38903	599.8672
$\frac{15}{16}$	1.38611	591.8577	1.38759	595.9193	1.38907	599.9948
$\frac{31}{32}$	1.38616	591.9844	1.38764	596.0464	1.38912	600.1224
1	1.38620	592.1111	1.38769	596.1736	1.38917	600.2500

24'

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.38917	600.2500	1.39064	604.3403	1.39211	608.4444
$\frac{1}{32}$	1.38921	600.3776	1.39069	604.4683	1.39216	608.5729
$\frac{1}{16}$	1.38926	600.5052	1.39073	604.5964	1.39220	608.7014
$\frac{3}{32}$	1.38930	600.6329	1.39078	604.7245	1.39225	608.8299
$\frac{1}{8}$	1.38935	600.7605	1.39082	604.8525	1.39229	608.9584
$\frac{5}{32}$	1.38940	600.8882	1.39087	604.9806	1.39234	609.0870
$\frac{3}{16}$	1.38944	601.0159	1.39092	605.1088	1.39239	609.2155
$\frac{7}{32}$	1.38949	601.1436	1.39096	605.2369	1.39243	609.3441
$\frac{1}{4}$	1.38954	601.2713	1.39101	605.3650	1.39248	609.4727
$\frac{9}{32}$	1.38958	601.3990	1.39105	605.4932	1.39252	609.6012
$\frac{5}{16}$	1.38963	601.5267	1.39110	605.6213	1.39257	609.7298
$\frac{11}{32}$	1.38967	601.6545	1.39115	605.7495	1.39261	609.8585
$\frac{3}{8}$	1.38972	601.7822	1.39119	605.8777	1.39266	609.9871
$\frac{13}{32}$	1.38977	601.9100	1.39124	606.0059	1.39271	610.1157
$\frac{7}{16}$	1.38981	602.0378	1.39128	606.1341	1.39275	610.2444
$\frac{15}{32}$	1.38986	602.1656	1.39133	606.2624	1.39280	610.3731
$\frac{1}{2}$	1.38990	602.2934	1.39138	606.3906	1.39284	610.5017
$\frac{17}{32}$	1.38995	602.4212	1.39142	606.5189	1.39289	610.6304
$\frac{9}{16}$	1.39000	602.5491	1.39147	606.6472	1.39293	610.7591
$\frac{19}{32}$	1.39004	602.6769	1.39151	606.7755	1.39298	610.8879
$\frac{5}{8}$	1.39009	602.8048	1.39156	606.9038	1.39303	611.0166
$\frac{21}{32}$	1.39013	602.9327	1.39161	607.0321	1.39307	611.1454
$\frac{11}{16}$	1.39018	603.0606	1.39165	607.1604	1.39312	611.2741
$\frac{23}{32}$	1.39023	603.1885	1.39170	607.2887	1.39316	611.4029
$\frac{3}{4}$	1.39027	603.3164	1.39174	607.4171	1.39321	611.5317
$\frac{25}{32}$	1.39032	603.4443	1.39179	607.5455	1.39326	611.6605
$\frac{13}{16}$	1.39036	603.5723	1.39184	607.6739	1.39330	611.7893
$\frac{27}{32}$	1.39041	603.7003	1.39188	607.8023	1.39335	611.9181
$\frac{7}{8}$	1.39046	603.8282	1.39193	607.9307	1.39339	612.0470
$\frac{29}{32}$	1.39050	603.9562	1.39197	608.0591	1.39344	612.1758
$\frac{15}{16}$	1.39055	604.0842	1.39202	608.1875	1.39348	612.3047
$\frac{31}{32}$	1.39059	604.2122	1.39206	608.3160	1.39353	612.4336
1	1.39064	604.3403	1.39211	608.4444	1.39358	612.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.39358	612.5625	1.39504	616.6944	1.39649	620.8403
$\frac{1}{32}$	1.39362	612.6914	1.39508	616.8238	1.39654	620.9701
$\frac{1}{16}$	1.39367	612.8203	1.39513	616.9532	1.39658	621.0999
$\frac{3}{32}$	1.39371	612.9493	1.39517	617.0825	1.39663	621.2297
$\frac{1}{8}$	1.39376	613.0782	1.39522	617.2119	1.39667	621.3595
$\frac{5}{32}$	1.39380	613.2072	1.39526	617.3413	1.39672	621.4893
$\frac{3}{16}$	1.39385	613.3362	1.39531	617.4707	1.39676	621.6192
$\frac{7}{32}$	1.39389	613.4652	1.39535	617.6002	1.39681	621.7490
$\frac{1}{4}$	1.39394	613.5942	1.39540	617.7296	1.39685	621.8789
$\frac{9}{32}$	1.39399	613.7232	1.39544	617.8591	1.39690	622.0088
$\frac{5}{16}$	1.39403	613.8522	1.39549	617.9885	1.39694	622.1387
$\frac{11}{32}$	1.39408	613.9813	1.39554	618.1180	1.39699	622.2686
$\frac{3}{8}$	1.39412	614.1104	1.39558	618.2475	1.39703	622.3985
$\frac{13}{32}$	1.39417	614.2394	1.39563	618.3770	1.39708	622.5285
$\frac{7}{16}$	1.39421	614.3685	1.39567	618.5065	1.39712	622.6584
$\frac{15}{32}$	1.39426	614.4976	1.39572	618.6361	1.39717	622.7884
$\frac{1}{2}$	1.39431	614.6267	1.39576	618.7656	1.39722	622.9184
$\frac{17}{32}$	1.39435	614.7559	1.39581	618.8952	1.39726	623.0484
$\frac{9}{16}$	1.39440	614.8850	1.39585	619.0248	1.39731	623.1784
$\frac{19}{32}$	1.39444	615.0142	1.39590	619.1544	1.39735	623.3084
$\frac{5}{8}$	1.39449	615.1433	1.39594	619.2840	1.39740	623.4385
$\frac{21}{32}$	1.39453	615.2725	1.39599	619.4136	1.39744	623.5685
$\frac{11}{16}$	1.39458	615.4017	1.39604	619.5432	1.39749	623.6986
$\frac{23}{32}$	1.39462	615.5309	1.39608	619.6729	1.39753	623.8287
$\frac{3}{4}$	1.39467	615.6602	1.39613	619.8025	1.39758	623.9588
$\frac{25}{32}$	1.39472	615.7894	1.39617	619.9322	1.39762	624.0889
$\frac{13}{16}$	1.39476	615.9186	1.39622	620.0619	1.39767	624.2190
$\frac{27}{32}$	1.39481	616.0479	1.39626	620.1916	1.39771	624.3491
$\frac{7}{8}$	1.39485	616.1772	1.39631	620.3213	1.39776	624.4793
$\frac{29}{32}$	1.39490	616.3065	1.39635	620.4510	1.39780	624.6094
$\frac{15}{16}$	1.39494	616.4358	1.39640	620.5808	1.39785	624.7396
$\frac{31}{32}$	1.39499	616.5651	1.39644	620.7105	1.39789	624.8698
1	1.39504	616.6944	1.39649	620.8403	1.39794	625.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.39794	625.0000	1.39939	629.1736	1.40083	633.3611
1/32	1.39799	625.1302	1.39943	629.3043	1.40087	633.4922
1/16	1.39803	625.2604	1.39948	629.4349	1.40092	633.6233
3/32	1.39808	625.3907	1.39952	629.5656	1.40096	633.7544
1/8	1.39812	625.5209	1.39957	629.6963	1.40101	633.8855
5/32	1.39817	625.6512	1.39961	629.8270	1.40105	634.0167
3/16	1.39821	625.7815	1.39966	629.9577	1.40110	634.1478
7/32	1.39826	625.9118	1.39970	630.0884	1.40114	634.2790
1/4	1.39830	626.0421	1.39975	630.2192	1.40119	634.4102
9/32	1.39835	626.1724	1.39979	630.3499	1.40123	634.5413
5/16	1.39839	626.3028	1.39984	630.4807	1.40127	634.6726
11/32	1.39844	626.4331	1.39988	630.6115	1.40132	634.8038
3/8	1.39848	626.5635	1.39993	630.7423	1.40136	634.9350
13/32	1.39853	626.6939	1.39997	630.8731	1.40141	635.0663
7/16	1.39857	626.8242	1.40002	631.0039	1.40145	635.1975
15/32	1.39862	626.9547	1.40006	631.1348	1.40150	635.3288
1/2	1.39866	627.0851	1.40011	631.2656	1.40154	635.4601
17/32	1.39871	627.2155	1.40015	631.3965	1.40159	635.5914
9/16	1.39875	627.3459	1.40020	631.5274	1.40163	635.7227
19/32	1.39880	627.4764	1.40024	631.6583	1.40168	635.8540
5/8	1.39884	627.6069	1.40029	631.7892	1.40172	635.9854
21/32	1.39889	627.7374	1.40033	631.9201	1.40177	636.1167
11/16	1.39893	627.8679	1.40038	632.0510	1.40181	636.2481
23/32	1.39898	627.9984	1.40042	632.1820	1.40186	636.3795
3/4	1.39902	628.1289	1.40047	632.3129	1.40190	636.5109
25/32	1.39907	628.2594	1.40051	632.4439	1.40195	636.6423
13/16	1.39911	628.3900	1.40056	632.5749	1.40199	636.7737
27/32	1.39916	628.5206	1.40060	632.7059	1.40204	636.9051
7/8	1.39920	628.6512	1.40065	632.8369	1.40208	637.0366
29/32	1.39925	628.7817	1.40069	632.9679	1.40213	637.1680
15/16	1.39930	628.9124	1.40074	633.0990	1.40217	637.2995
31/32	1.39934	629.0430	1.40078	633.2300	1.40222	637.4310
1	1.39939	629.1736	1.40083	633.3611	1.40226	637.5625

25'

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.40226	637.5625	1.40369	641.7778	1.40512	646.0069
$\frac{1}{32}$	1.40231	637.6940	1.40374	641.9097	1.40516	646.1393
$\frac{1}{16}$	1.40235	637.8255	1.40378	642.0417	1.40521	646.2717
$\frac{3}{32}$	1.40240	637.9571	1.40383	642.1737	1.40525	646.4041
$\frac{1}{8}$	1.40244	638.0887	1.40387	642.3057	1.40530	646.5366
$\frac{5}{32}$	1.40249	638.2202	1.40392	642.4377	1.40534	646.6690
$\frac{3}{16}$	1.40253	638.3518	1.40396	642.5697	1.40539	646.8015
$\frac{7}{32}$	1.40257	638.4834	1.40400	642.7017	1.40543	646.9339
$\frac{1}{4}$	1.40262	638.6150	1.40405	642.8338	1.40547	647.0664
$\frac{9}{32}$	1.40266	638.7466	1.40409	642.9658	1.40552	647.1989
$\frac{5}{16}$	1.40271	638.8783	1.40414	643.0979	1.40556	647.3314
$\frac{11}{32}$	1.40275	639.0099	1.40418	643.2300	1.40561	647.4639
$\frac{3}{8}$	1.40280	639.1416	1.40423	643.3621	1.40565	647.5965
$\frac{13}{32}$	1.40284	639.2733	1.40427	643.4942	1.40570	647.7290
$\frac{7}{16}$	1.40289	639.4050	1.40432	643.6263	1.40574	647.8616
$\frac{15}{32}$	1.40293	639.5367	1.40436	643.7585	1.40579	647.9941
$\frac{1}{2}$	1.40298	639.6684	1.40441	643.8906	1.40583	648.1267
$\frac{17}{32}$	1.40302	639.8001	1.40445	644.0228	1.40587	648.2593
$\frac{9}{16}$	1.40307	639.9319	1.40450	644.1550	1.40592	648.3920
$\frac{19}{32}$	1.40311	640.0636	1.40454	644.2872	1.40596	648.5246
$\frac{5}{8}$	1.40316	640.1954	1.40458	644.4194	1.40601	648.6572
$\frac{21}{32}$	1.40320	640.3272	1.40463	644.5516	1.40605	648.7899
$\frac{11}{16}$	1.40325	640.4590	1.40467	644.6838	1.40610	648.9226
$\frac{23}{32}$	1.40329	640.5908	1.40472	644.8161	1.40614	649.0552
$\frac{3}{4}$	1.40334	640.7227	1.40476	644.9484	1.40619	649.1879
$\frac{25}{32}$	1.40338	640.8545	1.40481	645.0806	1.40623	649.3206
$\frac{13}{16}$	1.40342	640.9864	1.40485	645.2129	1.40627	649.4534
$\frac{27}{32}$	1.40347	641.1182	1.40490	645.3452	1.40632	649.5861
$\frac{7}{8}$	1.40351	641.2501	1.40494	645.4775	1.40636	649.7189
$\frac{29}{32}$	1.40356	641.3820	1.40499	645.6099	1.40641	649.8516
$\frac{15}{16}$	1.40360	641.5139	1.40503	645.7422	1.40645	649.9844
$\frac{31}{32}$	1.40365	641.6458	1.40507	645.8746	1.40650	650.1172
1	1.40369	641.7778	1.40512	646.0069	1.40654	650.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.40654	650.2500	1.40796	654.5069	1.40937	658.7778
$\frac{1}{32}$	1.40658	650.3828	1.40800	654.6402	1.40941	658.9115
$\frac{1}{16}$	1.40663	650.5157	1.40805	654.7735	1.40946	659.0452
$\frac{3}{32}$	1.40667	650.6485	1.40809	654.9067	1.40950	659.1789
$\frac{1}{8}$	1.40672	650.7814	1.40813	655.0400	1.40955	659.3126
$\frac{5}{32}$	1.40676	650.9142	1.40818	655.1733	1.40959	659.4464
$\frac{3}{16}$	1.40681	651.0471	1.40822	655.3067	1.40963	659.5801
$\frac{7}{32}$	1.40685	651.1800	1.40827	655.4400	1.40968	659.7139
$\frac{1}{4}$	1.40689	651.3129	1.40831	655.5734	1.40972	659.8477
$\frac{9}{32}$	1.40694	651.4459	1.40835	655.7067	1.40977	659.9815
$\frac{5}{16}$	1.40698	651.5788	1.40840	655.8401	1.40981	660.1153
$\frac{11}{32}$	1.40703	651.7118	1.40844	655.9735	1.40985	660.2491
$\frac{3}{8}$	1.40707	651.8447	1.40849	656.1069	1.40990	660.3829
$\frac{13}{32}$	1.40712	651.9777	1.40853	656.2403	1.40994	660.5168
$\frac{7}{16}$	1.40716	652.1107	1.40858	656.3737	1.40999	660.6506
$\frac{15}{32}$	1.40720	652.2437	1.40862	656.5072	1.41003	660.7845
$\frac{1}{2}$	1.40725	652.3767	1.40866	656.6406	1.41007	660.9184
$\frac{17}{32}$	1.40729	652.5098	1.40871	656.7741	1.41012	661.0523
$\frac{9}{16}$	1.40734	652.6428	1.40875	656.9076	1.41016	661.1862
$\frac{19}{32}$	1.40738	652.7759	1.40880	657.0411	1.41021	661.3202
$\frac{5}{8}$	1.40743	652.9090	1.40884	657.1746	1.41025	661.4541
$\frac{21}{32}$	1.40747	653.0421	1.40888	657.3081	1.41029	661.5881
$\frac{11}{16}$	1.40751	653.1752	1.40893	657.4417	1.41034	661.7220
$\frac{23}{32}$	1.40756	653.3083	1.40897	657.5752	1.41038	661.8560
$\frac{3}{4}$	1.40760	653.4414	1.40902	657.7088	1.41043	661.9900
$\frac{25}{32}$	1.40765	653.5746	1.40906	657.8423	1.41047	662.1240
$\frac{13}{16}$	1.40769	653.7077	1.40911	657.9759	1.41051	662.2581
$\frac{27}{32}$	1.40774	653.8409	1.40915	658.1095	1.41056	662.3921
$\frac{7}{8}$	1.40778	653.9741	1.40919	658.2432	1.41060	662.5262
$\frac{29}{32}$	1.40782	654.1073	1.40924	658.3768	1.41065	662.6602
$\frac{15}{16}$	1.40787	654.2405	1.40928	658.5104	1.41069	662.7943
$\frac{31}{32}$	1.40791	654.3737	1.40933	658.6441	1.41073	662.9284
1	1.40796	654.5069	1.40937	658.7778	1.41078	663.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.41078	663.0625	1.41218	667.3611	1.41358	671.6736
$\frac{1}{32}$	1.41082	663.1966	1.41222	667.4957	1.41362	671.8086
$\frac{1}{16}$	1.41087	663.3308	1.41227	667.6302	1.41367	671.9436
$\frac{3}{32}$	1.41091	663.4649	1.41231	667.7648	1.41371	672.0786
$\frac{1}{8}$	1.41095	663.5991	1.41236	667.8994	1.41375	672.2137
$\frac{5}{32}$	1.41100	663.7332	1.41240	668.0340	1.41380	672.3487
$\frac{3}{16}$	1.41104	663.8674	1.41244	668.1686	1.41384	672.4838
$\frac{7}{32}$	1.41108	664.0016	1.41249	668.3033	1.41388	672.6188
$\frac{1}{4}$	1.41113	664.1359	1.41253	668.4379	1.41393	672.7539
$\frac{9}{32}$	1.41117	664.2701	1.41257	668.5726	1.41397	672.8890
$\frac{5}{16}$	1.41122	664.4043	1.41262	668.7073	1.41402	673.0241
$\frac{11}{32}$	1.41126	664.5386	1.41266	668.8420	1.41406	673.1592
$\frac{3}{8}$	1.41130	664.6729	1.41271	668.9767	1.41410	673.2944
$\frac{13}{32}$	1.41135	664.8071	1.41275	669.1114	1.41415	673.4295
$\frac{7}{16}$	1.41139	664.9414	1.41279	669.2461	1.41419	673.5647
$\frac{15}{32}$	1.41144	665.0757	1.41284	669.3809	1.41423	673.6999
$\frac{1}{2}$	1.41148	665.2101	1.41288	669.5156	1.41428	673.8351
$\frac{17}{32}$	1.41152	665.3444	1.41292	669.6504	1.41432	673.9703
$\frac{9}{16}$	1.41157	665.4788	1.41297	669.7852	1.41436	674.1055
$\frac{19}{32}$	1.41161	665.6131	1.41301	669.9200	1.41441	674.2407
$\frac{5}{8}$	1.41165	665.7475	1.41306	670.0548	1.41445	674.3760
$\frac{21}{32}$	1.41170	665.8819	1.41310	670.1896	1.41449	674.5112
$\frac{11}{16}$	1.41174	666.0163	1.41314	670.3245	1.41454	674.6465
$\frac{23}{32}$	1.41179	666.1507	1.41319	670.4593	1.41458	674.7818
$\frac{3}{4}$	1.41183	666.2852	1.41323	670.5942	1.41463	674.9171
$\frac{25}{32}$	1.41187	666.4196	1.41327	670.7291	1.41467	675.0524
$\frac{13}{16}$	1.41192	666.5541	1.41332	670.8640	1.41471	675.1877
$\frac{27}{32}$	1.41196	666.6885	1.41336	670.9989	1.41476	675.3231
$\frac{7}{8}$	1.41201	666.8230	1.41340	671.1338	1.41480	675.4584
$\frac{29}{32}$	1.41205	666.9575	1.41345	671.2687	1.41484	675.5938
$\frac{15}{16}$	1.41209	667.0920	1.41349	671.4037	1.41489	675.7292
$\frac{31}{32}$	1.41214	667.2266	1.41354	671.5386	1.41493	675.8646
1	1.41218	667.3611	1.41358	671.6736	1.41497	676.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.41497	676.0000	1.41636	680.3403	1.41775	684.6944
$\frac{1}{32}$	1.41502	676.1354	1.41641	680.4761	1.41779	684.8307
$\frac{1}{16}$	1.41506	676.2709	1.41645	680.6120	1.41783	684.9670
$\frac{3}{32}$	1.41510	676.4063	1.41649	680.7479	1.41788	685.1034
$\frac{1}{8}$	1.41515	676.5418	1.41654	680.8838	1.41792	685.2397
$\frac{5}{32}$	1.41519	676.6773	1.41658	681.0197	1.41796	685.3760
$\frac{3}{16}$	1.41523	676.8127	1.41662	681.1556	1.41801	685.5124
$\frac{7}{32}$	1.41528	676.9482	1.41667	681.2916	1.41805	685.6488
$\frac{1}{4}$	1.41532	677.0838	1.41671	681.4275	1.41809	685.7852
$\frac{9}{32}$	1.41536	677.2193	1.41675	681.5635	1.41814	685.9216
$\frac{5}{16}$	1.41541	677.3548	1.41680	681.6995	1.41818	686.0580
$\frac{11}{32}$	1.41545	677.4904	1.41684	681.8355	1.41822	686.1944
$\frac{3}{8}$	1.41550	677.6260	1.41688	681.9715	1.41827	686.3308
$\frac{13}{32}$	1.41554	677.7616	1.41693	682.1075	1.41831	686.4673
$\frac{7}{16}$	1.41558	677.8972	1.41697	682.2435	1.41835	686.6038
$\frac{15}{32}$	1.41563	678.0328	1.41701	682.3796	1.41840	686.7402
$\frac{1}{2}$	1.41567	678.1684	1.41706	682.5156	1.41844	686.8767
$\frac{17}{32}$	1.41571	678.3040	1.41710	682.6517	1.41848	687.0132
$\frac{9}{16}$	1.41576	678.4397	1.41714	682.7878	1.41853	687.1498
$\frac{19}{32}$	1.41580	678.5754	1.41719	682.9239	1.41857	687.2863
$\frac{5}{8}$	1.41584	678.7110	1.41723	683.0600	1.41861	687.4229
$\frac{21}{32}$	1.41589	678.8467	1.41727	683.1961	1.41866	687.5594
$\frac{11}{16}$	1.41593	678.9824	1.41732	683.3323	1.41870	687.6960
$\frac{23}{32}$	1.41597	679.1182	1.41736	683.4684	1.41874	687.8326
$\frac{3}{4}$	1.41602	679.2539	1.41740	683.6046	1.41878	687.9692
$\frac{25}{32}$	1.41606	679.3897	1.41745	683.7408	1.41883	688.1058
$\frac{13}{16}$	1.41610	679.5254	1.41749	683.8770	1.41887	688.2424
$\frac{27}{32}$	1.41615	679.6612	1.41753	684.0132	1.41891	688.3791
$\frac{7}{8}$	1.41619	679.7970	1.41758	684.1494	1.41896	688.5157
$\frac{29}{32}$	1.41623	679.9328	1.41762	684.2857	1.41900	688.6524
$\frac{15}{16}$	1.41628	680.0686	1.41766	684.4219	1.41904	688.7891
$\frac{31}{32}$	1.41632	680.2044	1.41771	684.5582	1.41909	688.9258
1	1.41636	680.3403	1.41775	684.6944	1.41913	689.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.41913	689.0625	1.42051	693.4444	1.42188	697.8403
$\frac{1}{32}$	1.41917	689.1992	1.42055	693.5816	1.42192	697.9779
$\frac{1}{16}$	1.41922	689.3360	1.42059	693.7188	1.42196	698.1155
$\frac{3}{32}$	1.41926	689.4727	1.42063	693.8560	1.42201	698.2531
$\frac{1}{8}$	1.41930	689.6095	1.42068	693.9932	1.42205	698.3907
$\frac{5}{32}$	1.41934	689.7463	1.42072	694.1304	1.42209	698.5284
$\frac{3}{16}$	1.41939	689.8831	1.42076	694.2676	1.42213	698.6660
$\frac{7}{32}$	1.41943	690.0199	1.42081	694.4048	1.42218	698.8037
$\frac{1}{4}$	1.41947	690.1567	1.42085	694.5421	1.42222	698.9414
$\frac{9}{32}$	1.41952	690.2935	1.42089	694.6794	1.42226	699.0791
$\frac{5}{16}$	1.41956	690.4304	1.42094	694.8167	1.42231	699.2168
$\frac{11}{32}$	1.41960	690.5672	1.42098	694.9539	1.42235	699.3546
$\frac{3}{8}$	1.41965	690.7041	1.42102	695.0913	1.42239	699.4923
$\frac{13}{32}$	1.41969	690.8410	1.42106	695.2286	1.42243	699.6301
$\frac{7}{16}$	1.41973	690.9779	1.42111	695.3659	1.42248	699.7678
$\frac{15}{32}$	1.41978	691.1148	1.42115	695.5033	1.42252	699.9056
$\frac{1}{2}$	1.41982	691.2517	1.42119	695.6406	1.42256	700.0434
$\frac{17}{32}$	1.41986	691.3887	1.42124	695.7780	1.42261	700.1812
$\frac{9}{16}$	1.41990	691.5256	1.42128	695.9154	1.42265	700.3190
$\frac{19}{32}$	1.41995	691.6626	1.42132	696.0528	1.42269	700.4569
$\frac{5}{8}$	1.41999	691.7996	1.42136	696.1902	1.42273	700.5947
$\frac{21}{32}$	1.42003	691.9366	1.42141	696.3276	1.42278	700.7326
$\frac{11}{16}$	1.42008	692.0736	1.42145	696.4651	1.42282	700.8705
$\frac{23}{32}$	1.42012	692.2106	1.42149	696.6025	1.42286	701.0084
$\frac{3}{4}$	1.42016	692.3477	1.42154	696.7400	1.42290	701.1463
$\frac{25}{32}$	1.42021	692.4847	1.42158	696.8775	1.42295	701.2842
$\frac{13}{16}$	1.42025	692.6218	1.42162	697.0150	1.42299	701.4221
$\frac{27}{32}$	1.42029	692.7589	1.42166	697.1525	1.42303	701.5601
$\frac{7}{8}$	1.42033	692.8959	1.42171	697.2900	1.42308	701.6980
$\frac{29}{32}$	1.42038	693.0330	1.42175	697.4276	1.42312	701.8360
$\frac{15}{16}$	1.42042	693.1702	1.42179	697.5651	1.42316	701.9740
$\frac{31}{32}$	1.42046	693.3073	1.42184	697.7027	1.42320	702.1120
1	1.42051	693.4444	1.42188	697.8403	1.42325	702.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.42325	702.2500	1.42461	706.6736	1.42597	711.1111
$\frac{1}{32}$	1.42329	702.3880	1.42465	706.8121	1.42601	711.2500
$\frac{1}{16}$	1.42333	702.5261	1.42469	706.9505	1.42605	711.3889
$\frac{3}{32}$	1.42337	702.6641	1.42474	707.0890	1.42610	711.5278
$\frac{1}{8}$	1.42342	702.8022	1.42478	707.2275	1.42614	711.6668
$\frac{5}{32}$	1.42346	702.9403	1.42482	707.3661	1.42618	711.8057
$\frac{3}{16}$	1.42350	703.0784	1.42486	707.5046	1.42622	711.9447
$\frac{7}{32}$	1.42354	703.2165	1.42491	707.6431	1.42627	712.0837
$\frac{1}{4}$	1.42359	703.3546	1.42495	707.7817	1.42631	712.2227
$\frac{9}{32}$	1.42363	703.4927	1.42499	707.9203	1.42635	712.3617
$\frac{5}{16}$	1.42367	703.6309	1.42503	708.0588	1.42639	712.5007
$\frac{11}{32}$	1.42372	703.7690	1.42508	708.1974	1.42644	712.6397
$\frac{3}{8}$	1.42376	703.9072	1.42512	708.3360	1.42648	712.7788
$\frac{13}{32}$	1.42380	704.0454	1.42516	708.4747	1.42652	712.9178
$\frac{7}{16}$	1.42384	704.1836	1.42520	708.6133	1.42656	713.0569
$\frac{15}{32}$	1.42389	704.3218	1.42525	708.7520	1.42660	713.1960
$\frac{1}{2}$	1.42393	704.4601	1.42529	708.8906	1.42665	713.3351
$\frac{17}{32}$	1.42397	704.5983	1.42533	709.0293	1.42669	713.4742
$\frac{9}{16}$	1.42401	704.7366	1.42537	709.1680	1.42673	713.6133
$\frac{19}{32}$	1.42406	704.8748	1.42542	709.3067	1.42677	713.7524
$\frac{5}{8}$	1.42410	705.0131	1.42546	709.4454	1.42682	713.8916
$\frac{21}{32}$	1.42414	705.1514	1.42550	709.5842	1.42686	714.0308
$\frac{11}{16}$	1.42418	705.2897	1.42554	709.7229	1.42690	714.1699
$\frac{23}{32}$	1.42423	705.4281	1.42559	709.8617	1.42694	714.3091
$\frac{3}{4}$	1.42427	705.5664	1.42563	710.0004	1.42699	714.4484
$\frac{25}{32}$	1.42431	705.7048	1.42567	710.1392	1.42703	714.5876
$\frac{13}{16}$	1.42435	705.8431	1.42571	710.2780	1.42707	714.7268
$\frac{27}{32}$	1.42440	705.9815	1.42576	710.4168	1.42711	714.8661
$\frac{7}{8}$	1.42444	706.1199	1.42580	710.5557	1.42715	715.0053
$\frac{29}{32}$	1.42448	706.2583	1.42584	710.6945	1.42720	715.1446
$\frac{15}{16}$	1.42452	706.3967	1.42588	710.8334	1.42724	715.2839
$\frac{31}{32}$	1.42457	706.5352	1.42593	710.9722	1.42728	715.4232
1	1.42461	706.6736	1.42597	711.1111	1.42732	715.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.42732	715.5625	1.42867	720.0278	1.43002	724.5069
$\frac{1}{32}$	1.42737	715.7018	1.42872	720.1675	1.43006	724.6471
$\frac{1}{16}$	1.42741	715.8412	1.42876	720.3073	1.43011	724.7874
$\frac{3}{32}$	1.42745	715.9805	1.42880	720.4471	1.43015	724.9276
$\frac{1}{8}$	1.42749	716.1199	1.42884	720.5869	1.43019	725.0678
$\frac{5}{32}$	1.42754	716.2593	1.42889	720.7267	1.43023	725.2081
$\frac{3}{16}$	1.42758	716.3987	1.42893	720.8666	1.43027	725.3483
$\frac{7}{32}$	1.42762	716.5381	1.42897	721.0064	1.43032	725.4886
$\frac{1}{4}$	1.42766	716.6775	1.42901	721.1463	1.43036	725.6289
$\frac{9}{32}$	1.42770	716.8170	1.42905	721.2861	1.43040	725.7692
$\frac{5}{16}$	1.42775	716.9564	1.42910	721.4260	1.43044	725.9095
$\frac{11}{32}$	1.42779	717.0959	1.42914	721.5659	1.43048	726.0499
$\frac{3}{8}$	1.42783	717.2354	1.42918	721.7058	1.43053	726.1902
$\frac{13}{32}$	1.42787	717.3748	1.42922	721.8458	1.43057	726.3306
$\frac{7}{16}$	1.42792	717.5144	1.42926	721.9857	1.43061	726.4709
$\frac{15}{32}$	1.42796	717.6539	1.42931	722.1257	1.43065	726.6113
$\frac{1}{2}$	1.42800	717.7934	1.42935	722.2656	1.43069	726.7517
$\frac{17}{32}$	1.42804	717.9329	1.42939	722.4056	1.43074	726.8922
$\frac{9}{16}$	1.42808	718.0725	1.42943	722.5456	1.43078	727.0326
$\frac{19}{32}$	1.42813	718.2121	1.42947	722.6856	1.43082	727.1730
$\frac{5}{8}$	1.42817	718.3517	1.42952	722.8256	1.43086	727.3135
$\frac{21}{32}$	1.42821	718.4913	1.42956	722.9657	1.43090	727.4539
$\frac{11}{16}$	1.42825	718.6309	1.42960	723.1057	1.43094	727.5944
$\frac{23}{32}$	1.42830	718.7705	1.42964	723.2458	1.43099	727.7349
$\frac{3}{4}$	1.42834	718.9102	1.42969	723.3859	1.43103	727.8754
$\frac{25}{32}$	1.42838	719.0498	1.42973	723.5259	1.43107	728.0160
$\frac{13}{16}$	1.42842	719.1895	1.42977	723.6660	1.43111	728.1565
$\frac{27}{32}$	1.42846	719.3292	1.42981	723.8062	1.43115	728.2970
$\frac{7}{8}$	1.42851	719.4689	1.42985	723.9463	1.43120	728.4376
$\frac{29}{32}$	1.42855	719.6086	1.42990	724.0864	1.43124	728.5782
$\frac{15}{16}$	1.42859	719.7483	1.42994	724.2266	1.43128	728.7188
$\frac{31}{32}$	1.42863	719.8880	1.42998	724.3668	1.43132	728.8594
1	1.42867	720.0278	1.43002	724.5069	1.43136	729.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.43136	729.0000	1.43270	733.5069	1.43404	738.0278
$\frac{1}{32}$	1.43141	729.1406	1.43274	733.6480	1.43408	738.1693
$\frac{1}{16}$	1.43145	729.2813	1.43279	733.7891	1.43412	738.3108
$\frac{3}{32}$	1.43149	729.4219	1.43283	733.9302	1.43416	738.4523
$\frac{1}{8}$	1.43153	729.5626	1.43287	734.0713	1.43420	738.5939
$\frac{5}{32}$	1.43157	729.7033	1.43291	734.2124	1.43424	738.7354
$\frac{3}{16}$	1.43162	729.8440	1.43295	734.3535	1.43429	738.8770
$\frac{7}{32}$	1.43166	729.9847	1.43299	734.4947	1.43433	739.0186
$\frac{1}{4}$	1.43170	730.1254	1.43304	734.6359	1.43437	739.1602
$\frac{9}{32}$	1.43174	730.2662	1.43308	734.7770	1.43441	739.3018
$\frac{5}{16}$	1.43178	730.4069	1.43312	734.9182	1.43445	739.4434
$\frac{11}{32}$	1.43182	730.5477	1.43316	735.0594	1.43449	739.5850
$\frac{3}{8}$	1.43187	730.6885	1.43320	735.2006	1.43454	739.7267
$\frac{13}{32}$	1.43191	730.8293	1.43324	735.3419	1.43458	739.8683
$\frac{7}{16}$	1.43195	730.9701	1.43329	735.4831	1.43462	740.0100
$\frac{15}{32}$	1.43199	731.1109	1.43333	735.6244	1.43466	740.1517
$\frac{1}{2}$	1.43203	731.2517	1.43337	735.7656	1.43470	740.2934
$\frac{17}{32}$	1.43208	731.3926	1.43341	735.9069	1.43474	740.4351
$\frac{9}{16}$	1.43212	731.5334	1.43345	736.0482	1.43479	740.5769
$\frac{19}{32}$	1.43216	731.6743	1.43349	736.1895	1.43483	740.7186
$\frac{5}{8}$	1.43220	731.8152	1.43354	736.3308	1.43487	740.8604
$\frac{21}{32}$	1.43224	731.9561	1.43358	736.4722	1.43491	741.0021
$\frac{11}{16}$	1.43228	732.0970	1.43362	736.6135	1.43495	741.1439
$\frac{23}{32}$	1.43233	732.2380	1.43366	736.7549	1.43499	741.2857
$\frac{3}{4}$	1.43237	732.3789	1.43370	736.8963	1.43503	741.4275
$\frac{25}{32}$	1.43241	732.5199	1.43374	737.0377	1.43508	741.5693
$\frac{13}{16}$	1.43245	732.6608	1.43379	737.1791	1.43512	741.7112
$\frac{27}{32}$	1.43249	732.8018	1.43383	737.3205	1.43516	741.8530
$\frac{7}{8}$	1.43254	732.9428	1.43387	737.4619	1.43520	741.9949
$\frac{29}{32}$	1.43258	733.0838	1.43391	737.6034	1.43524	742.1368
$\frac{15}{16}$	1.43262	733.2249	1.43395	737.7448	1.43528	742.2787
$\frac{31}{32}$	1.43266	733.3659	1.43399	737.8863	1.43533	742.4206
1	1.43270	733.5069	1.43404	738.0278	1.43537	742.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.43537	742.5625	1.43669	747.1111	1.43801	751.6736
$\frac{1}{32}$	1.43541	742.7044	1.43673	747.2535	1.43806	751.8164
$\frac{1}{16}$	1.43545	742.8464	1.43678	747.3959	1.43810	751.9592
$\frac{3}{32}$	1.43549	742.9883	1.43682	747.5383	1.43814	752.1021
$\frac{1}{8}$	1.43553	743.1303	1.43686	747.6807	1.43818	752.2449
$\frac{5}{32}$	1.43557	743.2723	1.43690	747.8231	1.43822	752.3878
$\frac{3}{16}$	1.43562	743.4143	1.43694	747.9655	1.43826	752.5306
$\frac{7}{32}$	1.43566	743.5563	1.43698	748.1080	1.43830	752.6735
$\frac{1}{4}$	1.43570	743.6984	1.43702	748.2504	1.43834	752.8164
$\frac{9}{32}$	1.43574	743.8404	1.43706	748.3929	1.43839	752.9593
$\frac{5}{16}$	1.43578	743.9824	1.43711	748.5354	1.43843	753.1022
$\frac{11}{32}$	1.43582	744.1245	1.43715	748.6779	1.43847	753.2452
$\frac{3}{8}$	1.43586	744.2666	1.43719	748.8204	1.43851	753.3881
$\frac{13}{32}$	1.43591	744.4087	1.43723	748.9630	1.43855	753.5311
$\frac{7}{16}$	1.43595	744.5508	1.43727	749.1055	1.43859	753.6741
$\frac{15}{32}$	1.43599	744.6929	1.43731	749.2481	1.43863	753.8171
$\frac{1}{2}$	1.43603	744.8351	1.43735	749.3906	1.43867	753.9601
$\frac{17}{32}$	1.43607	744.9772	1.43740	749.5332	1.43872	754.1031
$\frac{9}{16}$	1.43611	745.1194	1.43744	749.6758	1.43876	754.2461
$\frac{19}{32}$	1.43615	745.2616	1.43748	749.8184	1.43880	754.3892
$\frac{5}{8}$	1.43620	745.4038	1.43752	749.9610	1.43884	754.5322
$\frac{21}{32}$	1.43624	745.5460	1.43756	750.1037	1.43888	754.6753
$\frac{11}{16}$	1.43628	745.6882	1.43760	750.2463	1.43892	754.8184
$\frac{23}{32}$	1.43632	745.8304	1.43764	750.3890	1.43896	754.9615
$\frac{3}{4}$	1.43636	745.9727	1.43768	750.5317	1.43900	755.1046
$\frac{25}{32}$	1.43640	746.1149	1.43773	750.6744	1.43904	755.2477
$\frac{13}{16}$	1.43644	746.2572	1.43777	750.8171	1.43909	755.3909
$\frac{27}{32}$	1.43649	746.3995	1.43781	750.9598	1.43913	755.5340
$\frac{7}{8}$	1.43653	746.5418	1.43785	751.1025	1.43917	755.6772
$\frac{29}{32}$	1.43657	746.6841	1.43789	751.2453	1.43921	755.8204
$\frac{15}{16}$	1.43661	746.8264	1.43793	751.3880	1.43925	755.9636
$\frac{31}{32}$	1.43665	746.9688	1.43797	751.5308	1.43929	756.1068
1	1.43669	747.1111	1.43801	751.6736	1.43933	756.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.43933	756.2500	1.44065	760.8403	1.44196	765.4444
$\frac{1}{32}$	1.43937	756.3932	1.44069	760.9839	1.44200	765.5885
$\frac{1}{16}$	1.43941	756.5365	1.44073	761.1276	1.44204	765.7327
$\frac{3}{32}$	1.43946	756.6797	1.44077	761.2713	1.44208	765.8768
$\frac{1}{8}$	1.43950	756.8230	1.44081	761.4150	1.44212	766.0209
$\frac{5}{32}$	1.43954	756.9663	1.44085	761.5588	1.44216	766.1651
$\frac{3}{16}$	1.43958	757.1096	1.44089	761.7025	1.44220	766.3093
$\frac{7}{32}$	1.43962	757.2529	1.44093	761.8463	1.44224	766.4535
$\frac{1}{4}$	1.43966	757.3963	1.44097	761.9900	1.44228	766.5977
$\frac{9}{32}$	1.43970	757.5396	1.44102	762.1338	1.44232	766.7419
$\frac{5}{16}$	1.43974	757.6830	1.44106	762.2776	1.44237	766.8861
$\frac{11}{32}$	1.43978	757.8263	1.44110	762.4214	1.44241	767.0303
$\frac{3}{8}$	1.43983	757.9697	1.44114	762.5652	1.44245	767.1746
$\frac{13}{32}$	1.43987	758.1131	1.44118	762.7090	1.44249	767.3189
$\frac{7}{16}$	1.43991	758.2565	1.44122	762.8529	1.44253	767.4631
$\frac{15}{32}$	1.43995	758.4000	1.44126	762.9968	1.44257	767.6074
$\frac{1}{2}$	1.43999	758.5434	1.44130	763.1406	1.44261	767.7517
$\frac{17}{32}$	1.44003	758.6869	1.44134	763.2845	1.44265	767.8961
$\frac{9}{16}$	1.44007	758.8303	1.44138	763.4284	1.44269	768.0404
$\frac{19}{32}$	1.44011	758.9738	1.44143	763.5723	1.44273	768.1847
$\frac{5}{8}$	1.44015	759.1173	1.44147	763.7163	1.44277	768.3291
$\frac{21}{32}$	1.44020	759.2608	1.44151	763.8602	1.44281	768.4735
$\frac{11}{16}$	1.44024	759.4043	1.44155	764.0042	1.44286	768.6179
$\frac{23}{32}$	1.44028	759.5479	1.44159	764.1481	1.44290	768.7623
$\frac{3}{4}$	1.44032	759.6914	1.44163	764.2921	1.44294	768.9067
$\frac{25}{32}$	1.44036	759.8350	1.44167	764.4361	1.44298	769.0511
$\frac{13}{16}$	1.44040	759.9785	1.44171	764.5801	1.44302	769.1956
$\frac{27}{32}$	1.44044	760.1221	1.44175	764.7241	1.44306	769.3400
$\frac{7}{8}$	1.44048	760.2657	1.44179	764.8682	1.44310	769.4845
$\frac{29}{32}$	1.44052	760.4093	1.44183	765.0122	1.44314	769.6290
$\frac{15}{16}$	1.44056	760.5530	1.44188	765.1563	1.44318	769.7735
$\frac{31}{32}$	1.44061	760.6966	1.44192	765.3004	1.44322	769.9180
1	1.44065	760.8403	1.44196	765.4444	1.44326	770.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.44326	770.0625	1.44457	774.6944	1.44586	779.3403
$\frac{1}{32}$	1.44330	770.2070	1.44461	774.8394	1.44590	779.4857
$\frac{1}{16}$	1.44334	770.3516	1.44465	774.9844	1.44594	779.6311
$\frac{3}{32}$	1.44339	770.4962	1.44469	775.1294	1.44599	779.7765
$\frac{1}{8}$	1.44343	770.6407	1.44473	775.2744	1.44603	779.9220
$\frac{5}{32}$	1.44347	770.7853	1.44477	775.4194	1.44607	780.0674
$\frac{3}{16}$	1.44351	770.9299	1.44481	775.5645	1.44611	780.2129
$\frac{7}{32}$	1.44355	771.0746	1.44485	775.7095	1.44615	780.3584
$\frac{1}{4}$	1.44359	771.2192	1.44489	775.8546	1.44619	780.5039
$\frac{9}{32}$	1.44363	771.3638	1.44493	775.9997	1.44623	780.6494
$\frac{5}{16}$	1.44367	771.5085	1.44497	776.1448	1.44627	780.7949
$\frac{11}{32}$	1.44371	771.6532	1.44501	776.2899	1.44631	780.9405
$\frac{3}{8}$	1.44375	771.7979	1.44505	776.4350	1.44635	781.0860
$\frac{13}{32}$	1.44379	771.9426	1.44509	776.5801	1.44639	781.2316
$\frac{7}{16}$	1.44383	772.0873	1.44513	776.7253	1.44643	781.3772
$\frac{15}{32}$	1.44387	772.2320	1.44517	776.8704	1.44647	781.5228
$\frac{1}{2}$	1.44391	772.3767	1.44521	777.0156	1.44651	781.6684
$\frac{17}{32}$	1.44396	772.5215	1.44526	777.1608	1.44655	781.8140
$\frac{9}{16}$	1.44400	772.6663	1.44530	777.3060	1.44659	781.9597
$\frac{19}{32}$	1.44404	772.8110	1.44534	777.4512	1.44663	782.1053
$\frac{5}{8}$	1.44408	772.9558	1.44538	777.5965	1.44667	782.2510
$\frac{21}{32}$	1.44412	773.1006	1.44542	777.7417	1.44671	782.3967
$\frac{11}{16}$	1.44416	773.2455	1.44546	777.8870	1.44675	782.5423
$\frac{23}{32}$	1.44420	773.3903	1.44550	778.0322	1.44679	782.6880
$\frac{3}{4}$	1.44424	773.5352	1.44554	778.1775	1.44683	782.8338
$\frac{25}{32}$	1.44428	773.6800	1.44558	778.3228	1.44688	782.9795
$\frac{13}{16}$	1.44432	773.8249	1.44562	778.4681	1.44692	783.1252
$\frac{27}{32}$	1.44436	773.9698	1.44566	778.6135	1.44696	783.2710
$\frac{7}{8}$	1.44440	774.1147	1.44570	778.7588	1.44700	783.4168
$\frac{29}{32}$	1.44444	774.2596	1.44574	778.9041	1.44704	783.5626
$\frac{15}{16}$	1.44448	774.4045	1.44578	779.0495	1.44708	783.7084
$\frac{31}{32}$	1.44452	774.5495	1.44582	779.1949	1.44712	783.8542
1	1.44457	774.6944	1.44586	779.3403	1.44716	784.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.44716	784.0000	1.44845	788.6736	1.44974	793.3611
$\frac{1}{32}$	1.44720	784.1458	1.44849	788.8199	1.44978	793.5078
$\frac{1}{16}$	1.44724	784.2917	1.44853	788.9662	1.44982	793.6545
$\frac{3}{32}$	1.44728	784.4376	1.44857	789.1125	1.44986	793.8013
$\frac{1}{8}$	1.44732	784.5834	1.44861	789.2588	1.44990	793.9480
$\frac{5}{32}$	1.44736	784.7293	1.44865	789.4051	1.44994	794.0948
$\frac{3}{16}$	1.44740	784.8752	1.44869	789.5515	1.44998	794.2416
$\frac{7}{32}$	1.44744	785.0212	1.44873	789.6978	1.45002	794.3884
$\frac{1}{4}$	1.44748	785.1671	1.44877	789.8442	1.45006	794.5352
$\frac{9}{32}$	1.44752	785.3130	1.44881	789.9906	1.45010	794.6820
$\frac{5}{16}$	1.44756	785.4590	1.44885	790.1370	1.45014	794.8288
$\frac{11}{32}$	1.44760	785.6050	1.44889	790.2834	1.45018	794.9756
$\frac{3}{8}$	1.44764	785.7510	1.44893	790.4298	1.45022	795.1225
$\frac{13}{32}$	1.44768	785.8970	1.44897	790.5762	1.45026	795.2694
$\frac{7}{16}$	1.44772	786.0430	1.44901	790.7227	1.45030	795.4163
$\frac{15}{32}$	1.44776	786.1890	1.44905	790.8691	1.45034	795.5632
$\frac{1}{2}$	1.44780	786.3351	1.44909	791.0156	1.45038	795.7101
$\frac{17}{32}$	1.44784	786.4811	1.44913	791.1621	1.45042	795.8570
$\frac{9}{16}$	1.44788	786.6272	1.44917	791.3086	1.45046	796.0039
$\frac{19}{32}$	1.44792	786.7733	1.44921	791.4551	1.45050	796.1509
$\frac{5}{8}$	1.44797	786.9194	1.44925	791.6017	1.45054	796.2979
$\frac{21}{32}$	1.44801	787.0655	1.44929	791.7482	1.45058	796.4448
$\frac{11}{16}$	1.44805	787.2116	1.44933	791.8948	1.45062	796.5918
$\frac{23}{32}$	1.44809	787.3578	1.44937	792.0413	1.45066	796.7388
$\frac{3}{4}$	1.44813	787.5039	1.44941	792.1879	1.45070	796.8859
$\frac{25}{32}$	1.44817	787.6501	1.44945	792.3345	1.45074	797.0329
$\frac{13}{16}$	1.44821	787.7963	1.44949	792.4811	1.45078	797.1799
$\frac{27}{32}$	1.44825	787.9424	1.44953	792.6278	1.45082	797.3270
$\frac{7}{8}$	1.44829	788.0886	1.44957	792.7744	1.45086	797.4741
$\frac{29}{32}$	1.44833	788.2349	1.44961	792.9211	1.45090	797.6212
$\frac{15}{16}$	1.44837	788.3811	1.44966	793.0677	1.45094	797.7683
$\frac{31}{32}$	1.44841	788.5274	1.44970	793.2144	1.45098	797.9154
1	1.44845	788.6736	1.44974	793.3611	1.45102	798.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.45102	798.0625	1.45230	802.7778	1.45357	807.5069
$\frac{1}{32}$	1.45106	798.2096	1.45234	802.9254	1.45361	807.6550
$\frac{1}{16}$	1.45110	798.3568	1.45238	803.0729	1.45365	807.8030
$\frac{3}{32}$	1.45114	798.5040	1.45242	803.2205	1.45369	807.9510
$\frac{1}{8}$	1.45118	798.6512	1.45246	803.3682	1.45373	808.0991
$\frac{5}{32}$	1.45122	798.7983	1.45250	803.5158	1.45377	808.2471
$\frac{3}{16}$	1.45126	798.9456	1.45254	803.6634	1.45381	808.3952
$\frac{7}{32}$	1.45130	799.0928	1.45258	803.8111	1.45385	808.5433
$\frac{1}{4}$	1.45134	799.2400	1.45262	803.9588	1.45389	808.6914
$\frac{9}{32}$	1.45138	799.3873	1.45266	804.1065	1.45393	808.8395
$\frac{5}{16}$	1.45142	799.5345	1.45270	804.2542	1.45397	808.9877
$\frac{11}{32}$	1.45146	799.6818	1.45274	804.4019	1.45401	809.1358
$\frac{3}{8}$	1.45150	799.8291	1.45278	804.5496	1.45405	809.2840
$\frac{13}{32}$	1.45154	799.9764	1.45282	804.6973	1.45409	809.4321
$\frac{7}{16}$	1.45158	800.1237	1.45286	804.8451	1.45413	809.5803
$\frac{15}{32}$	1.45162	800.2711	1.45290	804.9928	1.45417	809.7285
$\frac{1}{2}$	1.45166	800.4184	1.45294	805.1406	1.45421	809.8767
$\frac{17}{32}$	1.45170	800.5658	1.45298	805.2884	1.45425	810.0250
$\frac{9}{16}$	1.45174	800.7131	1.45302	805.4362	1.45429	810.1732
$\frac{19}{32}$	1.45178	800.8605	1.45306	805.5840	1.45433	810.3215
$\frac{5}{8}$	1.45182	801.0079	1.45310	805.7319	1.45437	810.4697
$\frac{21}{32}$	1.45186	801.1553	1.45314	805.8797	1.45441	810.6180
$\frac{11}{16}$	1.45190	801.3028	1.45317	806.0276	1.45445	810.7663
$\frac{23}{32}$	1.45194	801.4502	1.45321	806.1755	1.45449	810.9146
$\frac{3}{4}$	1.45198	801.5977	1.45325	806.3234	1.45453	811.0629
$\frac{25}{32}$	1.45202	801.7451	1.45329	806.4713	1.45457	811.2113
$\frac{13}{16}$	1.45206	801.8926	1.45333	806.6192	1.45461	811.3596
$\frac{27}{32}$	1.45210	802.0401	1.45337	806.7671	1.45465	811.5080
$\frac{7}{8}$	1.45214	802.1876	1.45341	806.9150	1.45469	811.6564
$\frac{29}{32}$	1.45218	802.3351	1.45345	807.0630	1.45473	811.8047
$\frac{15}{16}$	1.45222	802.4827	1.45349	807.2110	1.45477	811.9532
$\frac{31}{32}$	1.45226	802.6302	1.45353	807.3589	1.45481	812.1016
1	1.45230	802.7778	1.45357	807.5069	1.45484	812.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.45484	812.2500	1.45611	817.0069	1.45738	821.7778
$\frac{1}{32}$	1.45488	812.3984	1.45615	817.1558	1.45742	821.9271
$\frac{1}{16}$	1.45492	812.5469	1.45619	817.3047	1.45746	822.0764
$\frac{3}{32}$	1.45496	812.6954	1.45623	817.4536	1.45750	822.2258
$\frac{1}{8}$	1.45500	812.8439	1.45627	817.6025	1.45753	822.3751
$\frac{5}{32}$	1.45504	812.9924	1.45631	817.7515	1.45757	822.5245
$\frac{3}{16}$	1.45508	813.1409	1.45635	817.9004	1.45761	822.6739
$\frac{7}{32}$	1.45512	813.2894	1.45639	818.0494	1.45765	822.8232
$\frac{1}{4}$	1.45516	813.4379	1.45643	818.1984	1.45769	822.9727
$\frac{9}{32}$	1.45520	813.5865	1.45647	818.3473	1.45773	823.1221
$\frac{5}{16}$	1.45524	813.7351	1.45651	818.4963	1.45777	823.2715
$\frac{11}{32}$	1.45528	813.8836	1.45655	818.6454	1.45781	823.4210
$\frac{3}{8}$	1.45532	814.0322	1.45659	818.7944	1.45785	823.5704
$\frac{13}{32}$	1.45536	814.1808	1.45663	818.9434	1.45789	823.7199
$\frac{7}{16}$	1.45540	814.3295	1.45667	819.0925	1.45793	823.8694
$\frac{15}{32}$	1.45544	814.4781	1.45671	819.2415	1.45797	824.0189
$\frac{1}{2}$	1.45548	814.6267	1.45675	819.3906	1.45801	824.1684
$\frac{17}{32}$	1.45552	814.7754	1.45679	819.5397	1.45805	824.3179
$\frac{9}{16}$	1.45556	814.9241	1.45682	819.6888	1.45809	824.4675
$\frac{19}{32}$	1.45560	815.0728	1.45686	819.8380	1.45813	824.6170
$\frac{5}{8}$	1.45564	815.2215	1.45690	819.9871	1.45817	824.7666
$\frac{21}{32}$	1.45568	815.3702	1.45694	820.1362	1.45820	824.9162
$\frac{11}{16}$	1.45572	815.5189	1.45698	820.2854	1.45824	825.0658
$\frac{23}{32}$	1.45576	815.6677	1.45702	820.4346	1.45828	825.2154
$\frac{3}{4}$	1.45580	815.8164	1.45706	820.5838	1.45832	825.3650
$\frac{25}{32}$	1.45584	815.9652	1.45710	820.7330	1.45836	825.5147
$\frac{13}{16}$	1.45588	816.1140	1.45714	820.8822	1.45840	825.6643
$\frac{27}{32}$	1.45591	816.2628	1.45718	821.0314	1.45844	825.8140
$\frac{7}{8}$	1.45595	816.4116	1.45722	821.1807	1.45848	825.9637
$\frac{29}{32}$	1.45599	816.5604	1.45726	821.3299	1.45852	826.1133
$\frac{15}{16}$	1.45603	816.7092	1.45730	821.4792	1.45856	826.2630
$\frac{31}{32}$	1.45607	816.8581	1.45734	821.6285	1.45860	826.4128
1	1.45611	817.0069	1.45738	821.7778	1.45864	826.5625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.45864	826.5625	1.45989	831.3611	1.46115	836.1736
$\frac{1}{32}$	1.45868	826.7122	1.45993	831.5113	1.46119	836.3242
$\frac{1}{16}$	1.45872	826.8620	1.45997	831.6615	1.46123	836.4749
$\frac{3}{32}$	1.45876	827.0118	1.46001	831.8117	1.46127	836.6255
$\frac{1}{8}$	1.45880	827.1616	1.46005	831.9619	1.46130	836.7762
$\frac{5}{32}$	1.45883	827.3114	1.46009	832.1121	1.46134	836.9268
$\frac{3}{16}$	1.45887	827.4612	1.46013	832.2624	1.46138	837.0775
$\frac{7}{32}$	1.45891	827.6110	1.46017	832.4127	1.46142	837.2282
$\frac{1}{4}$	1.45895	827.7609	1.46021	832.5629	1.46146	837.3789
$\frac{9}{32}$	1.45899	827.9107	1.46025	832.7132	1.46150	837.5296
$\frac{5}{16}$	1.45903	828.0606	1.46029	832.8635	1.46154	837.6804
$\frac{11}{32}$	1.45907	828.2105	1.46033	833.0138	1.46158	837.8311
$\frac{3}{8}$	1.45911	828.3604	1.46037	833.1642	1.46162	837.9819
$\frac{13}{32}$	1.45915	828.5103	1.46040	833.3145	1.46166	838.1327
$\frac{7}{16}$	1.45919	828.6602	1.46044	833.4649	1.46170	838.2834
$\frac{15}{32}$	1.45923	828.8101	1.46048	833.6152	1.46173	838.4343
$\frac{1}{2}$	1.45927	828.9601	1.46052	833.7656	1.46177	838.5851
$\frac{17}{32}$	1.45931	829.1100	1.46056	833.9160	1.46181	838.7359
$\frac{9}{16}$	1.45935	829.2600	1.46060	834.0664	1.46185	838.8867
$\frac{19}{32}$	1.45938	829.4100	1.46064	834.2169	1.46189	839.0376
$\frac{5}{8}$	1.45942	829.5600	1.46068	834.3673	1.46193	839.1885
$\frac{21}{32}$	1.45946	829.7100	1.46072	834.5177	1.46197	839.3394
$\frac{11}{16}$	1.45950	829.8601	1.46076	834.6682	1.46201	839.4903
$\frac{23}{32}$	1.45954	830.0101	1.46080	834.8187	1.46205	839.6412
$\frac{3}{4}$	1.45958	830.1602	1.46084	834.9692	1.46209	839.7921
$\frac{25}{32}$	1.45962	830.3102	1.46087	835.1197	1.46212	839.9430
$\frac{13}{16}$	1.45966	830.4603	1.46091	835.2702	1.46216	840.0940
$\frac{27}{32}$	1.45970	830.6104	1.46095	835.4207	1.46220	840.2450
$\frac{7}{8}$	1.45974	830.7605	1.46099	835.5713	1.46224	840.3959
$\frac{29}{32}$	1.45978	830.9107	1.46103	835.7218	1.46228	840.5469
$\frac{15}{16}$	1.45982	831.0608	1.46107	835.8724	1.46232	840.6979
$\frac{31}{32}$	1.45986	831.2109	1.46111	836.0230	1.46236	840.8490
1	1.45989	831.3611	1.46115	836.1736	1.46240	841.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.46240	841.0000	1.46364	845.8403	1.46489	850.6944
$\frac{1}{32}$	1.46244	841.1510	1.46368	845.9918	1.46493	850.8464
$\frac{1}{16}$	1.46248	841.3021	1.46372	846.1433	1.46496	850.9983
$\frac{3}{32}$	1.46251	841.4532	1.46376	846.2948	1.46500	851.1502
$\frac{1}{8}$	1.46255	841.6043	1.46380	846.4463	1.46504	851.3022
$\frac{5}{32}$	1.46259	841.7554	1.46384	846.5978	1.46508	851.4542
$\frac{3}{16}$	1.46263	841.9065	1.46388	846.7494	1.46512	851.6061
$\frac{7}{32}$	1.46267	842.0576	1.46392	846.9009	1.46516	851.7581
$\frac{1}{4}$	1.46271	842.2088	1.46396	847.0525	1.46520	851.9102
$\frac{9}{32}$	1.46275	842.3599	1.46399	847.2041	1.46524	852.0622
$\frac{5}{16}$	1.46279	842.5111	1.46403	847.3557	1.46527	852.2142
$1\frac{1}{32}$	1.46283	842.6623	1.46407	847.5073	1.46531	852.3663
$\frac{3}{8}$	1.46287	842.8135	1.46411	847.6590	1.46535	852.5183
$1\frac{3}{32}$	1.46290	842.9647	1.46415	847.8106	1.46539	852.6704
$\frac{7}{16}$	1.46294	843.1159	1.46419	847.9623	1.46543	852.8225
$1\frac{5}{32}$	1.46298	843.2672	1.46423	848.1139	1.46547	852.9746
$\frac{1}{2}$	1.46302	843.4184	1.46427	848.2656	1.46551	853.1267
$1\frac{7}{32}$	1.46306	843.5697	1.46430	848.4173	1.46555	853.2789
$\frac{9}{16}$	1.46310	843.7209	1.46434	848.5690	1.46558	853.4310
$1\frac{9}{32}$	1.46314	843.8722	1.46438	848.7208	1.46562	853.5832
$\frac{5}{8}$	1.46318	844.0235	1.46442	848.8725	1.46566	853.7354
$1\frac{11}{32}$	1.46322	844.1749	1.46446	849.0243	1.46570	853.8875
$1\frac{1}{16}$	1.46326	844.3262	1.46450	849.1760	1.46574	854.0397
$1\frac{13}{32}$	1.46329	844.4775	1.46454	849.3278	1.46578	854.1920
$\frac{3}{4}$	1.46333	844.6289	1.46458	849.4796	1.46582	854.3442
$1\frac{15}{32}$	1.46337	844.7803	1.46462	849.6314	1.46586	854.4964
$1\frac{1}{8}$	1.46341	844.9317	1.46465	849.7832	1.46589	854.6487
$1\frac{17}{32}$	1.46345	845.0831	1.46469	849.9351	1.46593	854.8010
$\frac{7}{8}$	1.46349	845.2345	1.46473	850.0869	1.46597	854.9532
$1\frac{19}{32}$	1.46353	845.3859	1.46477	850.2388	1.46601	855.1055
$1\frac{1}{4}$	1.46357	845.5374	1.46481	850.3907	1.46605	855.2578
$1\frac{21}{32}$	1.46361	845.6888	1.46485	850.5425	1.46609	855.4102
1	1.46364	845.8403	1.46489	850.6944	1.46613	855.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.46613	855.5625	1.46736	860.4444	1.46859	865.3403
$\frac{1}{32}$	1.46616	855.7149	1.46740	860.5972	1.46863	865.4935
$\frac{1}{16}$	1.46620	855.8672	1.46744	860.7500	1.46867	865.6467
$\frac{3}{32}$	1.46624	856.0196	1.46748	860.9028	1.46871	865.8000
$\frac{1}{8}$	1.46628	856.1720	1.46752	861.0557	1.46875	865.9532
$\frac{5}{32}$	1.46632	856.3244	1.46755	861.2085	1.46879	866.1065
$\frac{3}{16}$	1.46636	856.4768	1.46759	861.3614	1.46882	866.2598
$\frac{7}{32}$	1.46640	856.6292	1.46763	861.5142	1.46886	866.4131
$\frac{1}{4}$	1.46644	856.7817	1.46767	861.6671	1.46890	866.5664
$\frac{9}{32}$	1.46647	856.9341	1.46771	861.8200	1.46894	866.7197
$\frac{5}{16}$	1.46651	857.0866	1.46775	861.9729	1.46898	866.8731
$1\frac{1}{32}$	1.46655	857.2391	1.46779	862.1258	1.46902	867.0264
$\frac{3}{8}$	1.46659	857.3916	1.46782	862.2788	1.46905	867.1798
$1\frac{3}{32}$	1.46663	857.5441	1.46786	862.4317	1.46909	867.3332
$\frac{7}{16}$	1.46667	857.6966	1.46790	862.5847	1.46913	867.4866
$1\frac{5}{32}$	1.46671	857.8492	1.46794	862.7376	1.46917	867.6400
$\frac{1}{2}$	1.46674	858.0017	1.46798	862.8906	1.46921	867.7934
$1\frac{7}{32}$	1.46678	858.1543	1.46802	863.0436	1.46925	867.9468
$\frac{9}{16}$	1.46682	858.3069	1.46805	863.1966	1.46928	868.1003
$1\frac{9}{32}$	1.46686	858.4595	1.46809	863.3497	1.46932	868.2538
$\frac{5}{8}$	1.46690	858.6121	1.46813	863.5027	1.46936	868.4072
$2\frac{1}{32}$	1.46694	858.7647	1.46817	863.6558	1.46940	868.5607
$1\frac{11}{16}$	1.46698	858.9173	1.46821	863.8088	1.46944	868.7142
$2\frac{3}{32}$	1.46701	859.0700	1.46825	863.9619	1.46948	868.8677
$\frac{3}{4}$	1.46705	859.2227	1.46829	864.1150	1.46952	869.0213
$2\frac{5}{32}$	1.46709	859.3753	1.46832	864.2681	1.46955	869.1748
$1\frac{13}{16}$	1.46713	859.5280	1.46836	864.4213	1.46959	869.3284
$2\frac{7}{32}$	1.46717	859.6807	1.46840	864.5744	1.46963	869.4819
$\frac{7}{8}$	1.46721	859.8334	1.46844	864.7275	1.46967	869.6355
$2\frac{9}{32}$	1.46725	859.9862	1.46848	864.8807	1.46971	869.7891
$1\frac{15}{16}$	1.46728	860.1389	1.46852	865.0339	1.46975	869.9427
$3\frac{1}{32}$	1.46732	860.2917	1.46856	865.1871	1.46978	870.0964
1	1.46736	860.4444	1.46859	865.3403	1.46982	870.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.46982	870.2500	1.47105	875.1736	1.47227	880.1111
$\frac{1}{32}$	1.46986	870.4037	1.47109	875.3277	1.47231	880.2656
$\frac{1}{16}$	1.46990	870.5573	1.47112	875.4818	1.47234	880.4202
$\frac{3}{32}$	1.46994	870.7110	1.47116	875.6359	1.47238	880.5747
$\frac{1}{8}$	1.46998	870.8647	1.47120	875.7900	1.47242	880.7293
$\frac{5}{32}$	1.47001	871.0184	1.47124	875.9442	1.47246	880.8839
$\frac{3}{16}$	1.47005	871.1721	1.47128	876.0983	1.47250	881.0384
$\frac{7}{32}$	1.47009	871.3259	1.47131	876.2525	1.47254	881.1930
$\frac{1}{4}$	1.47013	871.4796	1.47135	876.4067	1.47257	881.3477
$\frac{9}{32}$	1.47017	871.6334	1.47139	876.5609	1.47261	881.5023
$\frac{5}{16}$	1.47021	871.7871	1.47143	876.7151	1.47265	881.6569
$\frac{11}{32}$	1.47024	871.9409	1.47147	876.8693	1.47269	881.8116
$\frac{3}{8}$	1.47028	872.0947	1.47151	877.0235	1.47273	881.9663
$\frac{13}{32}$	1.47032	872.2485	1.47154	877.1778	1.47276	882.1209
$\frac{7}{16}$	1.47036	872.4024	1.47158	877.3321	1.47280	882.2756
$\frac{15}{32}$	1.47040	872.5562	1.47162	877.4863	1.47284	882.4303
$\frac{1}{2}$	1.47043	872.7101	1.47166	877.6406	1.47288	882.5851
$\frac{17}{32}$	1.47047	872.8639	1.47170	877.7949	1.47292	882.7398
$\frac{9}{16}$	1.47051	873.0178	1.47173	877.9492	1.47295	882.8946
$\frac{19}{32}$	1.47055	873.1717	1.47177	878.1036	1.47299	883.0493
$\frac{5}{8}$	1.47059	873.3256	1.47181	878.2579	1.47303	883.2041
$\frac{21}{32}$	1.47063	873.4796	1.47185	878.4123	1.47307	883.3589
$\frac{11}{16}$	1.47066	873.6335	1.47189	878.5666	1.47311	883.5137
$\frac{23}{32}$	1.47070	873.7874	1.47193	878.7210	1.47314	883.6685
$\frac{3}{4}$	1.47074	873.9414	1.47196	878.8754	1.47318	883.8234
$\frac{25}{32}$	1.47078	874.0954	1.47200	879.0298	1.47322	883.9782
$\frac{13}{16}$	1.47082	874.2494	1.47204	879.1843	1.47326	884.1331
$\frac{27}{32}$	1.47086	874.4034	1.47208	879.3387	1.47330	884.2879
$\frac{7}{8}$	1.47089	874.5574	1.47212	879.4932	1.47333	884.4428
$\frac{29}{32}$	1.47093	874.7114	1.47215	879.6476	1.47337	884.5977
$\frac{15}{16}$	1.47097	874.8655	1.47219	879.8021	1.47341	884.7526
$\frac{31}{32}$	1.47101	875.0195	1.47223	879.9566	1.47345	884.9076
1	1.47105	875.1736	1.47227	880.1111	1.47349	885.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.47349	885.0625	1.47470	890.0278	1.47591	895.0069
$\frac{1}{32}$	1.47352	885.2175	1.47474	890.1832	1.47595	895.1628
$\frac{1}{16}$	1.47356	885.3724	1.47478	890.3386	1.47599	895.3186
$\frac{3}{32}$	1.47360	885.5274	1.47482	890.4940	1.47603	895.4745
$\frac{1}{8}$	1.47364	885.6824	1.47485	890.6494	1.47606	895.6303
$\frac{5}{32}$	1.47368	885.8374	1.47489	890.8049	1.47610	895.7862
$\frac{3}{16}$	1.47372	885.9924	1.47493	890.9603	1.47614	895.9421
$\frac{7}{32}$	1.47375	886.1475	1.47497	891.1158	1.47618	896.0980
$\frac{1}{4}$	1.47379	886.3025	1.47500	891.2713	1.47622	896.2539
$\frac{9}{32}$	1.47383	886.4576	1.47504	891.4268	1.47625	896.4098
$\frac{5}{16}$	1.47387	886.6127	1.47508	891.5823	1.47629	896.5658
$\frac{11}{32}$	1.47390	886.7677	1.47512	891.7378	1.47633	896.7217
$\frac{3}{8}$	1.47394	886.9229	1.47516	891.8933	1.47637	896.8777
$\frac{13}{32}$	1.47398	887.0780	1.47519	892.0489	1.47640	897.0337
$\frac{7}{16}$	1.47402	887.2331	1.47523	892.2045	1.47644	897.1897
$\frac{15}{32}$	1.47406	887.3882	1.47527	892.3600	1.47648	897.3457
$\frac{1}{2}$	1.47409	887.5434	1.47531	892.5156	1.47652	897.5017
$\frac{17}{32}$	1.47413	887.6986	1.47535	892.6712	1.47656	897.6578
$\frac{9}{16}$	1.47417	887.8538	1.47538	892.8269	1.47659	897.8138
$\frac{19}{32}$	1.47421	888.0090	1.47542	892.9825	1.47663	897.9699
$\frac{5}{8}$	1.47425	888.1642	1.47546	893.1381	1.47667	898.1260
$\frac{21}{32}$	1.47428	888.3194	1.47550	893.2938	1.47671	898.2821
$\frac{11}{16}$	1.47432	888.4746	1.47553	893.4495	1.47674	898.4382
$\frac{23}{32}$	1.47436	888.6299	1.47557	893.6051	1.47678	898.5943
$\frac{3}{4}$	1.47440	888.7852	1.47561	893.7609	1.47682	898.7504
$\frac{25}{32}$	1.47444	888.9404	1.47565	893.9166	1.47686	898.9066
$\frac{13}{16}$	1.47447	889.0957	1.47569	894.0723	1.47690	899.0627
$\frac{27}{32}$	1.47451	889.2510	1.47572	894.2280	1.47693	899.2189
$\frac{7}{8}$	1.47455	889.4064	1.47576	894.3838	1.47697	899.3751
$\frac{29}{32}$	1.47459	889.5617	1.47580	894.5396	1.47701	899.5313
$\frac{15}{16}$	1.47463	889.7170	1.47584	894.6953	1.47705	899.6875
$\frac{31}{32}$	1.47466	889.8724	1.47588	894.8511	1.47708	899.8438
1	1.47470	890.0278	1.47591	895.0069	1.47712	900.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.47712	900.0000	1.47833	905.0069	1.47953	910.0278
$\frac{1}{32}$	1.47716	900.1563	1.47836	905.1636	1.47956	910.1849
$\frac{1}{16}$	1.47720	900.3125	1.47840	905.3203	1.47960	910.3420
$\frac{3}{32}$	1.47723	900.4688	1.47844	905.4771	1.47964	910.4992
$\frac{1}{8}$	1.47727	900.6251	1.47848	905.6338	1.47968	910.6564
$\frac{5}{32}$	1.47731	900.7814	1.47851	905.7905	1.47971	910.8135
$\frac{3}{16}$	1.47735	900.9377	1.47855	905.9473	1.47975	910.9707
$\frac{7}{32}$	1.47739	901.0941	1.47859	906.1041	1.47979	911.1279
$\frac{1}{4}$	1.47742	901.2504	1.47863	906.2609	1.47983	911.2852
$\frac{9}{32}$	1.47746	901.4068	1.47866	906.4176	1.47986	911.4424
$\frac{5}{16}$	1.47750	901.5632	1.47870	906.5745	1.47990	911.5996
$\frac{11}{32}$	1.47754	901.7196	1.47874	906.7313	1.47994	911.7569
$\frac{3}{8}$	1.47757	901.8760	1.47878	906.8881	1.47998	911.9142
$\frac{13}{32}$	1.47761	902.0324	1.47881	907.0450	1.48001	912.0715
$\frac{7}{16}$	1.47765	902.1888	1.47885	907.2018	1.48005	912.2288
$\frac{15}{32}$	1.47769	902.3453	1.47889	907.3587	1.48009	912.3861
$\frac{1}{2}$	1.47772	902.5017	1.47893	907.5156	1.48013	912.5434
$\frac{17}{32}$	1.47776	902.6582	1.47896	907.6725	1.48016	912.7007
$\frac{9}{16}$	1.47780	902.8147	1.47900	907.8295	1.48020	912.8581
$\frac{19}{32}$	1.47784	902.9712	1.47904	907.9864	1.48024	913.0155
$\frac{5}{8}$	1.47787	903.1277	1.47908	908.1433	1.48028	913.1729
$\frac{21}{32}$	1.47791	903.2842	1.47911	908.3003	1.48031	913.3302
$\frac{11}{16}$	1.47795	903.4408	1.47915	908.4573	1.48035	913.4877
$\frac{23}{32}$	1.47799	903.5973	1.47919	908.6143	1.48039	913.6451
$\frac{3}{4}$	1.47803	903.7539	1.47923	908.7713	1.48043	913.8025
$\frac{25}{32}$	1.47806	903.9105	1.47926	908.9283	1.48046	913.9600
$\frac{13}{16}$	1.47810	904.0671	1.47930	909.0853	1.48050	914.1174
$\frac{27}{32}$	1.47814	904.2237	1.47934	909.2424	1.48054	914.2749
$\frac{7}{8}$	1.47818	904.3803	1.47938	909.3994	1.48058	914.4324
$\frac{29}{32}$	1.47821	904.5370	1.47941	909.5565	1.48061	914.5899
$\frac{15}{16}$	1.47825	904.6936	1.47945	909.7136	1.48065	914.7474
$\frac{31}{32}$	1.47829	904.8503	1.47949	909.8707	1.48069	914.9050
1	1.47833	905.0069	1.47953	910.0278	1.48073	915.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.48073	915.0625	1.48192	920.1111	1.48311	925.1736
$\frac{1}{32}$	1.48076	915.2201	1.48196	920.2691	1.48315	925.3320
$\frac{1}{16}$	1.48080	915.3776	1.48199	920.4271	1.48319	925.4905
$\frac{3}{32}$	1.48084	915.5352	1.48203	920.5851	1.48322	925.6489
$\frac{1}{8}$	1.48087	915.6928	1.48207	920.7432	1.48326	925.8074
$\frac{5}{32}$	1.48091	915.8504	1.48211	920.9012	1.48330	925.9659
$\frac{3}{16}$	1.48095	916.0081	1.48214	921.0593	1.48333	926.1244
$\frac{7}{32}$	1.48099	916.1657	1.48218	921.2173	1.48337	926.2829
$\frac{1}{4}$	1.48102	916.3234	1.48222	921.3754	1.48341	926.4414
$\frac{9}{32}$	1.48106	916.4810	1.48226	921.5335	1.48345	926.5999
$\frac{5}{16}$	1.48110	916.6387	1.48229	921.6917	1.48348	926.7585
$\frac{11}{32}$	1.48114	916.7964	1.48233	921.8498	1.48352	926.9171
$\frac{3}{8}$	1.48117	916.9541	1.48237	922.0079	1.48356	927.0756
$\frac{13}{32}$	1.48121	917.1118	1.48240	922.1661	1.48359	927.2342
$\frac{7}{16}$	1.48125	917.2696	1.48244	922.3242	1.48363	927.3928
$\frac{15}{32}$	1.48129	917.4273	1.48248	922.4824	1.48367	927.5514
$\frac{1}{2}$	1.48132	917.5851	1.48252	922.6406	1.48371	927.7101
$\frac{17}{32}$	1.48136	917.7428	1.48255	922.7988	1.48374	927.8687
$\frac{9}{16}$	1.48140	917.9006	1.48259	922.9571	1.48378	928.0274
$\frac{19}{32}$	1.48144	918.0584	1.48263	923.1153	1.48382	928.1860
$\frac{5}{8}$	1.48147	918.2163	1.48267	923.2735	1.48385	928.3447
$\frac{21}{32}$	1.48151	918.3741	1.48270	923.4318	1.48389	928.5034
$\frac{11}{16}$	1.48155	918.5319	1.48274	923.5901	1.48393	928.6621
$\frac{23}{32}$	1.48158	918.6898	1.48278	923.7484	1.48397	928.8209
$\frac{3}{4}$	1.48162	918.8477	1.48281	923.9067	1.48400	928.9796
$\frac{25}{32}$	1.48166	919.0055	1.48285	924.0650	1.48404	929.1384
$\frac{13}{16}$	1.48170	919.1634	1.48289	924.2233	1.48408	929.2971
$\frac{27}{32}$	1.48173	919.3214	1.48293	924.3817	1.48411	929.4559
$\frac{7}{8}$	1.48177	919.4793	1.48296	924.5400	1.48415	929.6147
$\frac{29}{32}$	1.48181	919.6372	1.48300	924.6984	1.48419	929.7735
$\frac{15}{16}$	1.48185	919.7952	1.48304	924.8568	1.48423	929.9323
$\frac{31}{32}$	1.48188	919.9531	1.48307	925.0152	1.48426	930.0912
1	1.48192	920.1111	1.48311	925.1736	1.48430	930.2500

30'

Fractions of an Incht.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.48430	930.2500	1.48548	935.3403	1.48667	940.4444
$\frac{1}{32}$	1.48434	930.4089	1.48552	935.4996	1.48670	940.6042
$\frac{1}{16}$	1.48437	930.5677	1.48556	935.6589	1.48674	940.7639
$\frac{3}{32}$	1.48441	930.7266	1.48560	935.8182	1.48678	940.9237
$\frac{1}{8}$	1.48445	930.8855	1.48563	935.9775	1.48681	941.0834
$\frac{5}{32}$	1.48449	931.0444	1.48567	936.1369	1.48685	941.2432
$\frac{3}{16}$	1.48452	931.2034	1.48571	936.2963	1.48689	941.4030
$\frac{7}{32}$	1.48456	931.3623	1.48574	936.4556	1.48692	941.5628
$\frac{1}{4}$	1.48460	931.5213	1.48578	936.6150	1.48696	941.7227
$\frac{9}{32}$	1.48463	931.6802	1.48582	936.7744	1.48700	941.8825
$\frac{5}{16}$	1.48467	931.8392	1.48585	936.9338	1.48704	942.0423
$\frac{11}{32}$	1.48471	931.9982	1.48589	937.0933	1.48707	942.2022
$\frac{3}{8}$	1.48474	932.1572	1.48593	937.2527	1.48711	942.3621
$\frac{13}{32}$	1.48478	932.3163	1.48597	937.4122	1.48715	942.5220
$\frac{7}{16}$	1.48482	932.4753	1.48600	937.5716	1.48718	942.6819
$\frac{15}{32}$	1.48486	932.6343	1.48604	937.7311	1.48722	942.8418
$\frac{1}{2}$	1.48489	932.7934	1.48608	937.8906	1.48726	943.0017
$\frac{17}{32}$	1.48493	932.9525	1.48611	938.0501	1.48729	943.1617
$\frac{9}{16}$	1.48497	933.1116	1.48615	938.2097	1.48733	943.3216
$\frac{19}{32}$	1.48500	933.2707	1.48619	938.3692	1.48737	943.4816
$\frac{5}{8}$	1.48504	933.4298	1.48622	938.5288	1.48740	943.6416
$\frac{21}{32}$	1.48508	933.5889	1.48626	938.6883	1.48744	943.8016
$\frac{11}{16}$	1.48511	933.7481	1.48630	938.8479	1.48748	943.9616
$\frac{23}{32}$	1.48515	933.9072	1.48633	939.0075	1.48751	944.1216
$\frac{3}{4}$	1.48519	934.0664	1.48637	939.1671	1.48755	944.2817
$\frac{25}{32}$	1.48523	934.2256	1.48641	939.3267	1.48759	944.4417
$\frac{13}{16}$	1.48526	934.3848	1.48645	939.4864	1.48762	944.6018
$\frac{27}{32}$	1.48530	934.5440	1.48648	939.6460	1.48766	944.7619
$\frac{7}{8}$	1.48534	934.7032	1.48652	939.8057	1.48770	944.9220
$\frac{29}{32}$	1.48537	934.8625	1.48656	939.9653	1.48773	945.0821
$\frac{15}{16}$	1.48541	935.0217	1.48659	940.1250	1.48777	945.2422
$\frac{31}{32}$	1.48545	935.1810	1.48663	940.2847	1.48781	945.4024
1	1.48548	935.3403	1.48667	940.4444	1.48785	945.5625

30'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.48785	945.5625	1.48902	950.6944	1.49019	955.8403
$\frac{1}{32}$	1.48788	945.7227	1.48906	950.8550	1.49023	956.0013
$\frac{1}{16}$	1.48792	945.8828	1.48909	951.0157	1.49027	956.1624
$\frac{3}{32}$	1.48796	946.0430	1.48913	951.1763	1.49030	956.3234
$\frac{1}{8}$	1.48799	946.2032	1.48917	951.3369	1.49034	956.4845
$\frac{5}{32}$	1.48803	946.3635	1.48920	951.4976	1.49038	956.6456
$\frac{3}{16}$	1.48807	946.5237	1.48924	951.6582	1.49041	956.8067
$\frac{7}{32}$	1.48810	946.6839	1.48928	951.8189	1.49045	956.9678
$\frac{1}{4}$	1.48814	946.8442	1.48931	951.9796	1.49049	957.1289
$\frac{9}{32}$	1.48818	947.0045	1.48935	952.1403	1.49052	957.2900
$\frac{5}{16}$	1.48821	947.1647	1.48939	952.3010	1.49056	957.4512
$\frac{11}{32}$	1.48825	947.3250	1.48942	952.4618	1.49059	957.6124
$\frac{3}{8}$	1.48829	947.4854	1.48946	952.6225	1.49063	957.7735
$\frac{13}{32}$	1.48832	947.6457	1.48950	952.7833	1.49067	957.9347
$\frac{7}{16}$	1.48836	947.8060	1.48953	952.9440	1.49070	958.0959
$\frac{15}{32}$	1.48840	947.9664	1.48957	953.1048	1.49074	958.2572
$\frac{1}{2}$	1.48843	948.1267	1.48961	953.2656	1.49078	958.4184
$\frac{17}{32}$	1.48847	948.2871	1.48964	953.4264	1.49081	958.5797
$\frac{9}{16}$	1.48851	948.4475	1.48968	953.5873	1.49085	958.7409
$\frac{19}{32}$	1.48854	948.6079	1.48972	953.7481	1.49089	958.9022
$\frac{5}{8}$	1.48858	948.7683	1.48975	953.9090	1.49092	959.0635
$\frac{21}{32}$	1.48862	948.9288	1.48979	954.0698	1.49096	959.2248
$\frac{11}{16}$	1.48865	949.0892	1.48983	954.2307	1.49100	959.3861
$\frac{23}{32}$	1.48869	949.2497	1.48986	954.3916	1.49103	959.5474
$\frac{3}{4}$	1.48873	949.4102	1.48990	954.5525	1.49107	959.7088
$\frac{25}{32}$	1.48876	949.5706	1.48994	954.7134	1.49111	959.8701
$\frac{13}{16}$	1.48880	949.7311	1.48997	954.8744	1.49114	960.0315
$\frac{27}{32}$	1.48884	949.8917	1.49001	955.0353	1.49118	960.1929
$\frac{7}{8}$	1.48887	950.0522	1.49005	955.1963	1.49122	960.3543
$\frac{29}{32}$	1.48891	950.2127	1.49008	955.3573	1.49125	960.5157
$\frac{15}{16}$	1.48895	950.3733	1.49012	955.5183	1.49129	960.6771
$\frac{31}{32}$	1.48898	950.5339	1.49016	955.6793	1.49133	960.8385
1	1.48902	950.6944	1.49019	955.8403	1.49136	961.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.49136	961.0000	1.49253	966.1736	1.49369	971.3611
$\frac{1}{32}$	1.49140	961.1615	1.49256	966.3355	1.49373	971.5234
$\frac{1}{16}$	1.49143	961.3229	1.49260	966.4974	1.49376	971.6858
$\frac{3}{32}$	1.49147	961.4844	1.49264	966.6593	1.49380	971.8482
$\frac{1}{8}$	1.49151	961.6459	1.49267	966.8213	1.49384	972.0105
$\frac{5}{32}$	1.49154	961.8075	1.49271	966.9832	1.49387	972.1729
$\frac{3}{16}$	1.49158	961.9690	1.49275	967.1452	1.49391	972.3353
$\frac{7}{32}$	1.49162	962.1305	1.49278	967.3072	1.49394	972.4977
$\frac{1}{4}$	1.49165	962.2921	1.49282	967.4692	1.49398	972.6602
$\frac{9}{32}$	1.49169	962.4537	1.49285	967.6312	1.49402	972.8226
$\frac{5}{16}$	1.49173	962.6153	1.49289	967.7932	1.49405	972.9851
$\frac{11}{32}$	1.49176	962.7769	1.49293	967.9552	1.49409	973.1475
$\frac{3}{8}$	1.49180	962.9385	1.49296	968.1173	1.49413	973.3100
$\frac{13}{32}$	1.49184	963.1001	1.49300	968.2794	1.49416	973.4725
$\frac{7}{16}$	1.49187	963.2617	1.49304	968.4414	1.49420	973.6350
$\frac{15}{32}$	1.49191	963.4234	1.49307	968.6035	1.49423	973.7975
$\frac{1}{2}$	1.49195	963.5851	1.49311	968.7656	1.49427	973.9601
$\frac{17}{32}$	1.49198	963.7468	1.49315	968.9277	1.49431	974.1226
$\frac{9}{16}$	1.49202	963.9084	1.49318	969.0899	1.49434	974.2852
$\frac{19}{32}$	1.49205	964.0702	1.49322	969.2520	1.49438	974.4478
$\frac{5}{8}$	1.49209	964.2319	1.49325	969.4142	1.49442	974.6104
$\frac{21}{32}$	1.49213	964.3936	1.49329	969.5763	1.49445	974.7730
$\frac{11}{16}$	1.49216	964.5554	1.49333	969.7385	1.49449	974.9356
$\frac{23}{32}$	1.49220	964.7171	1.49336	969.9007	1.49452	975.0982
$\frac{3}{4}$	1.49224	964.8789	1.49340	970.0629	1.49456	975.2609
$\frac{25}{32}$	1.49227	965.0407	1.49344	970.2252	1.49460	975.4235
$\frac{13}{16}$	1.49231	965.2025	1.49347	970.3874	1.49463	975.5862
$\frac{27}{32}$	1.49235	965.3643	1.49351	970.5496	1.49467	975.7489
$\frac{7}{8}$	1.49238	965.5261	1.49355	970.7119	1.49471	975.9116
$\frac{29}{32}$	1.49242	965.6880	1.49358	970.8742	1.49474	976.0743
$\frac{15}{16}$	1.49245	965.8499	1.49362	971.0365	1.49478	976.2370
$\frac{31}{32}$	1.49249	966.0117	1.49365	971.1988	1.49481	976.3997
1	1.49253	966.1736	1.49369	971.3611	1.49485	976.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.49485	976.5625	1.49601	981.7778	1.49716	987.0069
$\frac{1}{32}$	1.49489	976.7253	1.49604	981.9410	1.49720	987.1706
$\frac{1}{16}$	1.49492	976.8880	1.49608	982.1042	1.49723	987.3342
$\frac{3}{32}$	1.49496	977.0508	1.49611	982.2674	1.49727	987.4979
$\frac{1}{8}$	1.49499	977.2137	1.49615	982.4307	1.49730	987.6616
$\frac{5}{32}$	1.49503	977.3765	1.49619	982.5939	1.49734	987.8253
$\frac{3}{16}$	1.49507	977.5393	1.49622	982.7572	1.49738	987.9890
$\frac{7}{32}$	1.49510	977.7022	1.49626	982.9205	1.49741	988.1527
$\frac{1}{4}$	1.49514	977.8650	1.49630	983.0838	1.49745	988.3164
$\frac{9}{32}$	1.49518	978.0279	1.49633	983.2471	1.49748	988.4802
$\frac{5}{16}$	1.49521	978.1908	1.49637	983.4104	1.49752	988.6439
$\frac{11}{32}$	1.49525	978.3537	1.49640	983.5737	1.49756	988.8077
$\frac{3}{8}$	1.49528	978.5166	1.49644	983.7371	1.49759	988.9715
$\frac{13}{32}$	1.49532	978.6795	1.49648	983.9005	1.49763	989.1353
$\frac{7}{16}$	1.49536	978.8425	1.49651	984.0638	1.49766	989.2991
$\frac{15}{32}$	1.49539	979.0054	1.49655	984.2272	1.49770	989.4629
$\frac{1}{2}$	1.49543	979.1684	1.49658	984.3906	1.49774	989.6267
$\frac{17}{32}$	1.49546	979.3314	1.49662	984.5540	1.49777	989.7906
$\frac{9}{16}$	1.49550	979.4944	1.49666	984.7175	1.49781	989.9545
$\frac{19}{32}$	1.49554	979.6574	1.49669	984.8809	1.49784	990.1183
$\frac{5}{8}$	1.49557	979.8204	1.49673	985.0444	1.49788	990.2822
$\frac{21}{32}$	1.49561	979.9835	1.49676	985.2079	1.49792	990.4461
$\frac{11}{16}$	1.49565	980.1465	1.49680	985.3713	1.49795	990.6101
$\frac{23}{32}$	1.49568	980.3096	1.49684	985.5348	1.49799	990.7740
$\frac{3}{4}$	1.49572	980.4727	1.49687	985.6984	1.49802	990.9379
$\frac{25}{32}$	1.49575	980.6357	1.49691	985.8619	1.49806	991.1019
$\frac{13}{16}$	1.49579	980.7989	1.49694	986.0254	1.49810	991.2659
$\frac{27}{32}$	1.49583	980.9620	1.49698	986.1890	1.49813	991.4299
$\frac{7}{8}$	1.49586	981.1251	1.49702	986.3525	1.49817	991.5939
$\frac{29}{32}$	1.49590	981.2883	1.49705	986.5161	1.49820	991.7579
$\frac{15}{16}$	1.49593	981.4514	1.49709	986.6797	1.49824	991.9219
$\frac{31}{32}$	1.49597	981.6146	1.49712	986.8433	1.49827	992.0859
1	1.49601	981.7778	1.49716	987.0069	1.49831	992.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.49831	992.2509	1.49946	997.5069	1.50060	1002.7778
$\frac{1}{32}$	1.49835	992.4141	1.49949	997.6714	1.50064	1002.9427
$\frac{1}{16}$	1.49838	992.5782	1.49953	997.8360	1.50067	1003.1077
$\frac{3}{32}$	1.49842	992.7422	1.49957	998.0005	1.50071	1003.2726
$\frac{1}{8}$	1.49845	992.9064	1.49960	998.1650	1.50075	1003.4376
$\frac{5}{32}$	1.49849	993.0705	1.49964	998.3296	1.50078	1003.6026
$\frac{3}{16}$	1.49853	993.2346	1.49967	998.4942	1.50082	1003.7676
$\frac{7}{32}$	1.49856	993.3988	1.49971	998.6588	1.50085	1003.9326
$\frac{1}{4}$	1.49860	993.5629	1.49974	998.8234	1.50089	1004.0977
$\frac{9}{32}$	1.49863	993.7271	1.49978	998.9880	1.50092	1004.2627
$\frac{5}{16}$	1.49867	993.8913	1.49982	999.1526	1.50096	1004.4278
$\frac{11}{32}$	1.49871	994.0555	1.49985	999.3172	1.50100	1004.5928
$\frac{3}{8}$	1.49874	994.2197	1.49989	999.4819	1.50103	1004.7579
$\frac{13}{32}$	1.49878	994.3840	1.49992	999.6465	1.50107	1004.9230
$\frac{7}{16}$	1.49881	994.5482	1.49996	999.8112	1.50110	1005.0881
$\frac{15}{32}$	1.49885	994.7125	1.49999	999.9759	1.50114	1005.2533
$\frac{1}{2}$	1.49888	994.8767	1.50003	1000.1406	1.50117	1005.4184
$\frac{17}{32}$	1.49892	995.0410	1.50007	1000.3053	1.50121	1005.5836
$\frac{9}{16}$	1.49896	995.2053	1.50010	1000.4701	1.50124	1005.7487
$\frac{19}{32}$	1.49899	995.3696	1.50014	1000.6348	1.50128	1005.9139
$\frac{5}{8}$	1.49903	995.5340	1.50017	1000.7996	1.50132	1006.0791
$\frac{21}{32}$	1.49906	995.6983	1.50021	1000.9644	1.50135	1006.2443
$\frac{11}{16}$	1.49910	995.8627	1.50025	1001.1292	1.50139	1006.4095
$\frac{23}{32}$	1.49914	996.0270	1.50028	1001.2940	1.50142	1006.5748
$\frac{3}{4}$	1.49917	996.1914	1.50032	1001.4588	1.50146	1006.7400
$\frac{25}{32}$	1.49921	996.3558	1.50035	1001.6236	1.50149	1006.9053
$\frac{13}{16}$	1.49924	996.5202	1.50039	1001.7884	1.50153	1007.0706
$\frac{27}{32}$	1.49928	996.6846	1.50042	1001.9533	1.50157	1007.2358
$\frac{7}{8}$	1.49931	996.8491	1.50046	1002.1182	1.50160	1007.4012
$\frac{29}{32}$	1.49935	997.0135	1.50050	1002.2830	1.50164	1007.5665
$\frac{15}{16}$	1.49939	997.1780	1.50053	1002.4479	1.50167	1007.7318
$\frac{31}{32}$	1.49942	997.3425	1.50057	1002.6129	1.50171	1007.8971
1	1.49946	997.5069	1.50060	1002.7778	1.50174	1008.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.50174	1008.0625	1.50288	1013.3611	1.50402	1018.6736
$\frac{1}{32}$	1.50178	1008.2279	1.50292	1013.5269	1.50405	1018.8399
$\frac{1}{16}$	1.50181	1008.3933	1.50295	1013.6927	1.50409	1019.0061
$\frac{3}{32}$	1.50185	1008.5587	1.50299	1013.8586	1.50412	1019.1724
$\frac{1}{8}$	1.50189	1008.7241	1.50302	1014.0244	1.50416	1019.3387
$\frac{5}{32}$	1.50192	1008.8895	1.50306	1014.1903	1.50419	1019.5049
$\frac{3}{16}$	1.50196	1009.0549	1.50310	1014.3561	1.50423	1019.6713
$\frac{7}{32}$	1.50199	1009.2204	1.50313	1014.5220	1.50427	1019.8376
$\frac{1}{4}$	1.50203	1009.3859	1.50317	1014.6879	1.50430	1020.0039
$\frac{9}{32}$	1.50206	1009.5513	1.50320	1014.8538	1.50434	1020.1703
$\frac{5}{16}$	1.50210	1009.7168	1.50324	1015.0198	1.50437	1020.3366
$\frac{11}{32}$	1.50214	1009.8823	1.50327	1015.1857	1.50441	1020.5030
$\frac{3}{8}$	1.50217	1010.0479	1.50331	1015.3517	1.50444	1020.6694
$\frac{13}{32}$	1.50221	1010.2134	1.50334	1015.5176	1.50448	1020.8358
$\frac{7}{16}$	1.50224	1010.3789	1.50338	1015.6836	1.50451	1021.0022
$\frac{15}{32}$	1.50228	1010.5445	1.50341	1015.8496	1.50455	1021.1686
$\frac{1}{2}$	1.50231	1010.7101	1.50345	1016.0156	1.50458	1021.3351
$\frac{17}{32}$	1.50235	1010.8757	1.50349	1016.1816	1.50462	1021.5015
$\frac{9}{16}$	1.50238	1011.0413	1.50352	1016.3477	1.50465	1021.6680
$\frac{19}{32}$	1.50242	1011.2069	1.50356	1016.5137	1.50469	1021.8345
$\frac{5}{8}$	1.50246	1011.3725	1.50359	1016.6798	1.50473	1022.0010
$\frac{21}{32}$	1.50249	1011.5381	1.50363	1016.8459	1.50476	1022.1675
$\frac{11}{16}$	1.50253	1011.7038	1.50366	1017.0120	1.50480	1022.3340
$\frac{23}{32}$	1.50256	1011.8695	1.50370	1017.1781	1.50483	1022.5005
$\frac{3}{4}$	1.50260	1012.0352	1.50373	1017.3442	1.50487	1022.6671
$\frac{25}{32}$	1.50263	1012.2009	1.50377	1017.5103	1.50490	1022.8337
$\frac{13}{16}$	1.50267	1012.3666	1.50380	1017.6765	1.50494	1023.0002
$\frac{27}{32}$	1.50270	1012.5323	1.50384	1017.8426	1.50497	1023.1668
$\frac{7}{8}$	1.50274	1012.6980	1.50388	1018.0088	1.50501	1023.3334
$\frac{29}{32}$	1.50278	1012.8638	1.50391	1018.1750	1.50504	1023.5001
$\frac{15}{16}$	1.50281	1013.0295	1.50395	1018.3412	1.50508	1023.6667
$\frac{31}{32}$	1.50285	1013.1953	1.50398	1018.5074	1.50511	1023.8333
1	1.50288	1013.3611	1.50402	1018.6736	1.50515	1024.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.50515	1024.0000	1.50628	1029.3403	1.50741	1034.6944
$\frac{1}{32}$	1.50519	1024.1667	1.50631	1029.5074	1.50744	1034.8620
$\frac{1}{16}$	1.50522	1024.3334	1.50635	1029.6745	1.50748	1035.0295
$\frac{3}{32}$	1.50526	1024.5001	1.50639	1029.8416	1.50751	1035.1971
$\frac{1}{8}$	1.50529	1024.6668	1.50642	1030.0088	1.50755	1035.3647
$\frac{5}{32}$	1.50533	1024.8335	1.50646	1030.1760	1.50758	1035.5323
$\frac{3}{16}$	1.50536	1025.0002	1.50649	1030.3431	1.50762	1035.6999
$\frac{7}{32}$	1.50540	1025.1670	1.50653	1030.5103	1.50765	1035.8675
$\frac{1}{4}$	1.50543	1025.3338	1.50656	1030.6775	1.50769	1036.0352
$\frac{9}{32}$	1.50547	1025.5005	1.50660	1030.8447	1.50772	1036.2028
$\frac{5}{16}$	1.50550	1025.6673	1.50663	1031.0120	1.50776	1036.3705
$\frac{11}{32}$	1.50554	1025.8342	1.50667	1031.1792	1.50779	1036.5381
$\frac{3}{8}$	1.50557	1026.0010	1.50670	1031.3465	1.50783	1036.7058
$\frac{13}{32}$	1.50561	1026.1678	1.50674	1031.5137	1.50786	1036.8735
$\frac{7}{16}$	1.50564	1026.3347	1.50677	1031.6810	1.50790	1037.0413
$\frac{15}{32}$	1.50568	1026.5015	1.50681	1031.8483	1.50793	1037.2090
$\frac{1}{2}$	1.50572	1026.6684	1.50684	1032.0156	1.50797	1037.3767
$\frac{17}{32}$	1.50575	1026.8353	1.50688	1032.1829	1.50800	1037.5445
$\frac{9}{16}$	1.50579	1027.0022	1.50691	1032.3503	1.50804	1037.7123
$\frac{19}{32}$	1.50582	1027.1691	1.50695	1032.5176	1.50807	1037.8801
$\frac{5}{8}$	1.50586	1027.3360	1.50698	1032.6850	1.50811	1038.0479
$\frac{21}{32}$	1.50589	1027.5030	1.50702	1032.8524	1.50814	1038.2157
$\frac{11}{16}$	1.50593	1027.6699	1.50705	1033.0198	1.50818	1038.3835
$\frac{23}{32}$	1.50596	1027.8369	1.50709	1033.1872	1.50821	1038.5513
$\frac{3}{4}$	1.50600	1028.0039	1.50712	1033.3546	1.50825	1038.7192
$\frac{25}{32}$	1.50603	1028.1709	1.50716	1033.5220	1.50828	1038.8871
$\frac{13}{16}$	1.50607	1028.3379	1.50720	1033.6895	1.50832	1039.0549
$\frac{27}{32}$	1.50610	1028.5049	1.50723	1033.8569	1.50835	1039.2228
$\frac{7}{8}$	1.50614	1028.6720	1.50727	1034.0244	1.50839	1039.3907
$\frac{29}{32}$	1.50617	1028.8390	1.50730	1034.1919	1.50842	1039.5587
$\frac{15}{16}$	1.50621	1029.0061	1.50734	1034.3594	1.50846	1039.7266
$\frac{31}{32}$	1.50624	1029.1732	1.50737	1034.5269	1.50849	1039.8945
1	1.50628	1029.3403	1.50741	1034.6944	1.50853	1040.0625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.50853	1040.0625	1.50965	1045.4444	1.51077	1050.8403
$\frac{1}{32}$	1.50856	1040.2305	1.50969	1045.6129	1.51080	1051.0091
$\frac{1}{16}$	1.50860	1040.3985	1.50972	1045.7813	1.51084	1051.1780
$\frac{3}{32}$	1.50863	1040.5665	1.50976	1045.9497	1.51087	1051.3468
$\frac{1}{8}$	1.50867	1040.7345	1.50979	1046.1182	1.51091	1051.5157
$\frac{5}{32}$	1.50871	1040.9025	1.50983	1046.2866	1.51094	1051.6846
$\frac{3}{16}$	1.50874	1041.0706	1.50986	1046.4551	1.51098	1051.8535
$\frac{7}{32}$	1.50878	1041.2386	1.50990	1046.6236	1.51101	1052.0225
$\frac{1}{4}$	1.50881	1041.4067	1.50993	1046.7921	1.51105	1052.1914
$\frac{9}{32}$	1.50885	1041.5748	1.50997	1046.9606	1.51108	1052.3604
$\frac{5}{16}$	1.50888	1041.7429	1.51000	1047.1292	1.51112	1052.5293
$\frac{11}{32}$	1.50892	1041.9110	1.51004	1047.2977	1.51115	1052.6983
$\frac{3}{8}$	1.50895	1042.0791	1.51007	1047.4663	1.51119	1052.8673
$\frac{13}{32}$	1.50899	1042.2472	1.51010	1047.6348	1.51122	1053.0363
$\frac{7}{16}$	1.50902	1042.4154	1.51014	1047.8034	1.51126	1053.2053
$\frac{15}{32}$	1.50906	1042.5836	1.51017	1047.9720	1.51129	1053.3744
$\frac{1}{2}$	1.50909	1042.7517	1.51021	1048.1406	1.51133	1053.5434
$\frac{17}{32}$	1.50913	1042.9199	1.51024	1048.3093	1.51136	1053.7125
$\frac{9}{16}$	1.50916	1043.0881	1.51028	1048.4779	1.51140	1053.8815
$\frac{19}{32}$	1.50920	1043.2564	1.51031	1048.6465	1.51143	1054.0506
$\frac{5}{8}$	1.50923	1043.4246	1.51035	1048.8152	1.51147	1054.2197
$\frac{21}{32}$	1.50927	1043.5928	1.51038	1048.9839	1.51150	1054.3888
$\frac{11}{16}$	1.50930	1043.7611	1.51042	1049.1526	1.51154	1054.5580
$\frac{23}{32}$	1.50934	1043.9294	1.51045	1049.3213	1.51157	1054.7271
$\frac{3}{4}$	1.50937	1044.0977	1.51049	1049.4900	1.51160	1054.8963
$\frac{25}{32}$	1.50941	1044.2660	1.51052	1049.6588	1.51164	1055.0654
$\frac{13}{16}$	1.50944	1044.4343	1.51056	1049.8275	1.51167	1055.2346
$\frac{27}{32}$	1.50948	1044.6026	1.51059	1049.9963	1.51171	1055.4038
$\frac{7}{8}$	1.50951	1044.7709	1.51063	1050.1650	1.51174	1055.5730
$\frac{29}{32}$	1.50955	1044.9393	1.51066	1050.3338	1.51178	1055.7422
$\frac{15}{16}$	1.50958	1045.1077	1.51070	1050.5026	1.51181	1055.9115
$\frac{31}{32}$	1.50962	1045.2760	1.51073	1050.6714	1.51185	1056.0807
1	1.50965	1045.4444	1.51077	1050.8403	1.51188	1056.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.51188	1056.2500	1.51300	1061.6736	1.51410	1067.1111
$\frac{1}{32}$	1.51192	1056.4193	1.51303	1061.8433	1.51414	1067.2813
$\frac{1}{16}$	1.51195	1056.5886	1.51306	1062.0130	1.51417	1067.4514
$\frac{3}{32}$	1.51199	1056.7579	1.51310	1062.1828	1.51421	1067.6216
$\frac{1}{8}$	1.51202	1056.9272	1.51313	1062.3525	1.51424	1067.7918
$\frac{5}{32}$	1.51206	1057.0965	1.51317	1062.5223	1.51428	1067.9620
$\frac{3}{16}$	1.51209	1057.2659	1.51320	1062.6921	1.51431	1068.1322
$\frac{7}{32}$	1.51213	1057.4352	1.51324	1062.8619	1.51435	1068.3024
$\frac{1}{4}$	1.51216	1057.6046	1.51327	1063.0317	1.51438	1068.4727
$\frac{9}{32}$	1.51220	1057.7740	1.51331	1063.2015	1.51442	1068.6429
$\frac{5}{16}$	1.51223	1057.9434	1.51334	1063.3713	1.51445	1068.8132
$\frac{11}{32}$	1.51227	1058.1128	1.51338	1063.5412	1.51449	1068.9835
$\frac{3}{8}$	1.51230	1058.2822	1.51341	1063.7110	1.51452	1069.1538
$\frac{13}{32}$	1.51234	1058.4517	1.51345	1063.8809	1.51455	1069.3241
$\frac{7}{16}$	1.51237	1058.6211	1.51348	1064.0508	1.51459	1069.4944
$\frac{15}{32}$	1.51241	1058.7906	1.51352	1064.2207	1.51462	1069.6647
$\frac{1}{2}$	1.51244	1058.9601	1.51355	1064.3906	1.51466	1069.8351
$\frac{17}{32}$	1.51247	1059.1296	1.51359	1064.5606	1.51469	1070.0054
$\frac{9}{16}$	1.51251	1059.2991	1.51362	1064.7305	1.51473	1070.1758
$\frac{19}{32}$	1.51254	1059.4686	1.51365	1064.9005	1.51476	1070.3462
$\frac{5}{8}$	1.51258	1059.6381	1.51369	1065.0704	1.51480	1070.5166
$\frac{21}{32}$	1.51261	1059.8077	1.51372	1065.2404	1.51483	1070.6870
$\frac{11}{16}$	1.51265	1059.9772	1.51376	1065.4104	1.51487	1070.8574
$\frac{23}{32}$	1.51268	1060.1468	1.51379	1065.5804	1.51490	1071.0279
$\frac{3}{4}$	1.51272	1060.3164	1.51383	1065.7504	1.51493	1071.1984
$\frac{25}{32}$	1.51275	1060.4860	1.51386	1065.9205	1.51497	1071.3688
$\frac{13}{16}$	1.51279	1060.6556	1.51390	1066.0905	1.51500	1071.5393
$\frac{27}{32}$	1.51282	1060.8253	1.51393	1066.2606	1.51504	1071.7098
$\frac{7}{8}$	1.51286	1060.9949	1.51397	1066.4307	1.51507	1071.8803
$\frac{29}{32}$	1.51289	1061.1646	1.51400	1066.6008	1.51511	1072.0508
$\frac{15}{16}$	1.51293	1061.3342	1.51404	1066.7709	1.51514	1072.2214
$\frac{31}{32}$	1.51296	1061.5039	1.51407	1066.9410	1.51518	1072.3919
1	1.51300	1061.6736	1.51410	1067.1111	1.51521	1072.5625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.51521	1072.5625	1.51631	1078.0278	1.51742	1083.5069
$\frac{1}{32}$	1.51525	1072.7331	1.51635	1078.1988	1.51745	1083.6784
$\frac{1}{16}$	1.51528	1072.9037	1.51638	1078.3698	1.51748	1083.8499
$\frac{3}{32}$	1.51531	1073.0743	1.51642	1078.5409	1.51752	1084.0213
$\frac{1}{8}$	1.51535	1073.2449	1.51645	1078.7119	1.51755	1084.1928
$\frac{5}{32}$	1.51538	1073.4155	1.51649	1078.8830	1.51759	1084.3643
$\frac{3}{16}$	1.51542	1073.5862	1.51652	1079.0541	1.51762	1084.5358
$\frac{7}{32}$	1.51545	1073.7568	1.51656	1079.2252	1.51766	1084.7074
$\frac{1}{4}$	1.51549	1073.9275	1.51659	1079.3963	1.51769	1084.8789
$\frac{9}{32}$	1.51552	1074.0982	1.51662	1079.5674	1.51772	1085.0505
$\frac{5}{16}$	1.51556	1074.2689	1.51666	1079.7385	1.51776	1085.2220
$\frac{11}{32}$	1.51559	1074.4396	1.51669	1079.9097	1.51779	1085.3936
$\frac{3}{8}$	1.51563	1074.6104	1.51673	1080.0808	1.51783	1085.5652
$\frac{13}{32}$	1.51566	1074.7811	1.51676	1080.2520	1.51786	1085.7368
$\frac{7}{16}$	1.51569	1074.9518	1.51680	1080.4232	1.51790	1085.9084
$\frac{15}{32}$	1.51573	1075.1226	1.51683	1080.5944	1.51793	1086.0801
$\frac{1}{2}$	1.51576	1075.2934	1.51687	1080.7656	1.51797	1086.2517
$\frac{17}{32}$	1.51580	1075.4642	1.51690	1080.9369	1.51800	1086.4234
$\frac{9}{16}$	1.51583	1075.6350	1.51693	1081.1081	1.51803	1086.5951
$\frac{19}{32}$	1.51587	1075.8058	1.51697	1081.2794	1.51807	1086.7668
$\frac{5}{8}$	1.51590	1075.9767	1.51700	1081.4506	1.51810	1086.9385
$\frac{21}{32}$	1.51594	1076.1475	1.51704	1081.6219	1.51814	1087.1102
$\frac{11}{16}$	1.51597	1076.3184	1.51707	1081.7932	1.51817	1087.2819
$\frac{23}{32}$	1.51600	1076.4893	1.51711	1081.9645	1.51821	1087.4537
$\frac{3}{4}$	1.51604	1076.6602	1.51714	1082.1359	1.51824	1087.6254
$\frac{25}{32}$	1.51607	1076.8311	1.51718	1082.3072	1.51827	1087.7972
$\frac{13}{16}$	1.51611	1077.0020	1.51721	1082.4785	1.51831	1087.9690
$\frac{27}{32}$	1.51614	1077.1729	1.51724	1082.6499	1.51834	1088.1408
$\frac{7}{8}$	1.51618	1077.3439	1.51728	1082.8213	1.51838	1088.3126
$\frac{29}{32}$	1.51621	1077.5148	1.51731	1082.9927	1.51841	1088.4844
$\frac{15}{16}$	1.51625	1077.6858	1.51735	1083.1641	1.51845	1088.6563
$\frac{31}{32}$	1.51628	1077.8568	1.51738	1083.3355	1.51848	1088.8281
1	1.51631	1078.0278	1.51742	1083.5069	1.51851	1089.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.51851	1089.0000	1.51961	1094.5069	1.52070	1100.0278
$\frac{1}{32}$	1.51855	1089.1719	1.51964	1094.6793	1.52074	1100.2005
$\frac{1}{16}$	1.51858	1089.3438	1.51968	1094.8516	1.52077	1100.3733
$\frac{3}{32}$	1.51862	1089.5157	1.51971	1095.0239	1.52080	1100.5461
$\frac{1}{8}$	1.51865	1089.6876	1.51975	1095.1963	1.52084	1100.7189
$\frac{5}{32}$	1.51869	1089.8595	1.51978	1095.3687	1.52087	1100.8917
$\frac{3}{16}$	1.51872	1090.0315	1.51981	1095.5410	1.52091	1101.0645
$\frac{7}{32}$	1.51875	1090.2035	1.51985	1095.7134	1.52094	1101.2373
$\frac{1}{4}$	1.51879	1090.3754	1.51988	1095.8859	1.52097	1101.4102
$\frac{9}{32}$	1.51882	1090.5474	1.51992	1096.0583	1.52101	1101.5830
$\frac{5}{16}$	1.51886	1090.7194	1.51995	1096.2307	1.52104	1101.7559
$\frac{11}{32}$	1.51889	1090.8914	1.51999	1096.4032	1.52108	1101.9288
$\frac{3}{8}$	1.51893	1091.0635	1.52002	1096.5756	1.52111	1102.1017
$\frac{13}{32}$	1.51896	1091.2355	1.52005	1096.7481	1.52114	1102.2746
$\frac{7}{16}$	1.51899	1091.4076	1.52009	1096.9206	1.52118	1102.4475
$\frac{15}{32}$	1.51903	1091.5797	1.52012	1097.0931	1.52121	1102.6204
$\frac{1}{2}$	1.51906	1091.7517	1.52016	1097.2656	1.52125	1102.7934
$\frac{17}{32}$	1.51910	1091.9238	1.52019	1097.4382	1.52128	1102.9664
$\frac{9}{16}$	1.51913	1092.0959	1.52022	1097.6107	1.52132	1103.1394
$\frac{19}{32}$	1.51916	1092.2681	1.52026	1097.7833	1.52135	1103.3123
$\frac{5}{8}$	1.51920	1092.4402	1.52029	1097.9558	1.52138	1103.4854
$\frac{21}{32}$	1.51923	1092.6124	1.52033	1098.1284	1.52142	1103.6584
$\frac{11}{16}$	1.51927	1092.7845	1.52036	1098.3010	1.52145	1103.8314
$\frac{23}{32}$	1.51930	1092.9567	1.52039	1098.4736	1.52149	1104.0045
$\frac{3}{4}$	1.51934	1093.1289	1.52043	1098.6463	1.52152	1104.1775
$\frac{25}{32}$	1.51937	1093.3011	1.52046	1098.8189	1.52155	1104.3506
$\frac{13}{16}$	1.51940	1093.4733	1.52050	1098.9916	1.52159	1104.5237
$\frac{27}{32}$	1.51944	1093.6456	1.52053	1099.1642	1.52162	1104.6968
$\frac{7}{8}$	1.51947	1093.8178	1.52057	1099.3369	1.52166	1104.8699
$\frac{29}{32}$	1.51951	1093.9901	1.52060	1099.5096	1.52169	1105.0430
$\frac{15}{16}$	1.51954	1094.1624	1.52063	1099.6823	1.52172	1105.2162
$\frac{31}{32}$	1.51958	1094.3346	1.52067	1099.8550	1.52176	1105.3893
1	1.51961	1094.5069	1.52070	1100.0278	1.52179	1105.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.52179	1105.5625	1.52288	1111.1111	1.52396	1116.6736
$\frac{1}{32}$	1.52183	1105.7357	1.52291	1111.2847	1.52400	1116.8477
$\frac{1}{16}$	1.52186	1105.9089	1.52295	1111.4584	1.52403	1117.0217
$\frac{3}{32}$	1.52189	1106.0821	1.52298	1111.6320	1.52406	1117.1958
$\frac{1}{8}$	1.52193	1106.2553	1.52301	1111.8057	1.52410	1117.3699
$\frac{5}{32}$	1.52196	1106.4286	1.52305	1111.9793	1.52413	1117.5440
$\frac{3}{16}$	1.52200	1106.6018	1.52308	1112.1530	1.52417	1117.7181
$\frac{7}{32}$	1.52203	1106.7751	1.52312	1112.3267	1.52420	1117.8923
$\frac{1}{4}$	1.52206	1106.9484	1.52315	1112.5004	1.52423	1118.0664
$\frac{9}{32}$	1.52210	1107.1216	1.52318	1112.6742	1.52427	1118.2406
$\frac{5}{16}$	1.52213	1107.2949	1.52322	1112.8479	1.52430	1118.4147
$\frac{11}{32}$	1.52217	1107.4683	1.52325	1113.0217	1.52434	1118.5889
$\frac{3}{8}$	1.52220	1107.6416	1.52329	1113.1954	1.52437	1118.7631
$\frac{13}{32}$	1.52223	1107.8149	1.52332	1113.3692	1.52440	1118.9373
$\frac{7}{16}$	1.52227	1107.9883	1.52335	1113.5430	1.52444	1119.1116
$\frac{15}{32}$	1.52230	1108.1617	1.52339	1113.7168	1.52447	1119.2858
$\frac{1}{2}$	1.52234	1108.3351	1.52342	1113.8906	1.52450	1119.4601
$\frac{17}{32}$	1.52237	1108.5085	1.52346	1114.0645	1.52454	1119.6343
$\frac{9}{16}$	1.52240	1108.6819	1.52349	1114.2383	1.52457	1119.8086
$\frac{19}{32}$	1.52244	1108.8553	1.52352	1114.4122	1.52461	1119.9829
$\frac{5}{8}$	1.52247	1109.0288	1.52356	1114.5860	1.52464	1120.1572
$\frac{21}{32}$	1.52251	1109.2022	1.52359	1114.7599	1.52467	1120.3315
$\frac{11}{16}$	1.52254	1109.3757	1.52362	1114.9338	1.52471	1120.5059
$\frac{23}{32}$	1.52257	1109.5492	1.52366	1115.1078	1.52474	1120.6802
$\frac{3}{4}$	1.52261	1109.7227	1.52369	1115.2817	1.52477	1120.8546
$\frac{25}{32}$	1.52264	1109.8962	1.52373	1115.4556	1.52481	1121.0290
$\frac{13}{16}$	1.52268	1110.0697	1.52376	1115.6296	1.52484	1121.2034
$\frac{27}{32}$	1.52271	1110.2432	1.52379	1115.8036	1.52488	1121.3778
$\frac{7}{8}$	1.52274	1110.4168	1.52383	1115.9775	1.52491	1121.5522
$\frac{29}{32}$	1.52278	1110.5903	1.52386	1116.1515	1.52494	1121.7266
$\frac{15}{16}$	1.52281	1110.7639	1.52390	1116.3255	1.52498	1121.9011
$\frac{31}{32}$	1.52284	1110.9375	1.52393	1116.4996	1.52501	1122.0755
1	1.52288	1111.1111	1.52396	1116.6736	1.52504	1122.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.52504	1122.2500	1.52612	1127.8403	1.52720	1133.4444
$\frac{1}{32}$	1.52508	1122.4245	1.52616	1128.0152	1.52723	1133.6198
$\frac{1}{16}$	1.52511	1122.5990	1.52619	1128.1901	1.52727	1133.7952
$\frac{3}{32}$	1.52515	1122.7735	1.52622	1128.3651	1.52730	1133.9705
$\frac{1}{8}$	1.52518	1122.9480	1.52626	1128.5400	1.52733	1134.1459
$\frac{5}{32}$	1.52521	1123.1226	1.52629	1128.7150	1.52737	1134.3213
$\frac{3}{16}$	1.52525	1123.2971	1.52633	1128.8900	1.52740	1134.4968
$\frac{7}{32}$	1.52528	1123.4717	1.52636	1129.0650	1.52744	1134.6722
$\frac{1}{4}$	1.52531	1123.6463	1.52639	1129.2400	1.52747	1134.8477
$\frac{9}{32}$	1.52535	1123.8209	1.52643	1129.4150	1.52750	1135.0231
$\frac{5}{16}$	1.52538	1123.9955	1.52646	1129.5901	1.52754	1135.1986
$\frac{11}{32}$	1.52542	1124.1701	1.52649	1129.7651	1.52757	1135.3741
$\frac{3}{8}$	1.52545	1124.3447	1.52653	1129.9402	1.52760	1135.5496
$\frac{13}{32}$	1.52548	1124.5194	1.52656	1130.1153	1.52764	1135.7251
$\frac{7}{16}$	1.52552	1124.6940	1.52660	1130.2904	1.52767	1135.9006
$\frac{15}{32}$	1.52555	1124.8687	1.52663	1130.4655	1.52770	1136.0762
$\frac{1}{2}$	1.52558	1125.0434	1.52666	1130.6406	1.52774	1136.2517
$\frac{17}{32}$	1.52562	1125.2181	1.52670	1130.8158	1.52777	1136.4273
$\frac{9}{16}$	1.52565	1125.3928	1.52673	1130.9909	1.52780	1136.6029
$\frac{19}{32}$	1.52569	1125.5676	1.52676	1131.1661	1.52784	1136.7785
$\frac{5}{8}$	1.52572	1125.7423	1.52680	1131.3413	1.52787	1136.9541
$\frac{21}{32}$	1.52575	1125.9171	1.52683	1131.5164	1.52791	1137.1297
$\frac{11}{16}$	1.52579	1126.0918	1.52686	1131.6917	1.52794	1137.3054
$\frac{23}{32}$	1.52582	1126.2666	1.52690	1131.8669	1.52797	1137.4810
$\frac{3}{4}$	1.52585	1126.4414	1.52693	1132.0421	1.52801	1137.6567
$\frac{25}{32}$	1.52589	1126.6162	1.52696	1132.2173	1.52804	1137.8324
$\frac{13}{16}$	1.52592	1126.7910	1.52700	1132.3926	1.52807	1138.0081
$\frac{27}{32}$	1.52596	1126.9659	1.52703	1132.5679	1.52811	1138.1838
$\frac{7}{8}$	1.52599	1127.1407	1.52707	1132.7432	1.52814	1138.3595
$\frac{29}{32}$	1.52602	1127.3156	1.52710	1132.9185	1.52817	1138.5352
$\frac{15}{16}$	1.52606	1127.4905	1.52713	1133.0938	1.52821	1138.7110
$\frac{31}{32}$	1.52609	1127.6654	1.52717	1133.2691	1.52824	1138.8867
1	1.52612	1127.8403	1.52720	1133.4444	1.52827	1139.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.52827	1139.0625	1.52934	1144.6944	1.53041	1150.3403
$\frac{1}{32}$	1.52831	1139.2383	1.52938	1144.8707	1.53045	1150.5169
$\frac{1}{16}$	1.52834	1139.4141	1.52941	1145.0469	1.53048	1150.6936
$\frac{3}{32}$	1.52837	1139.5899	1.52945	1145.2232	1.53051	1150.8703
$\frac{1}{8}$	1.52841	1139.7657	1.52948	1145.3994	1.53055	1151.0470
$\frac{5}{32}$	1.52844	1139.9416	1.52951	1145.5757	1.53058	1151.2237
$\frac{3}{16}$	1.52847	1140.1174	1.52955	1145.7520	1.53061	1151.4004
$\frac{7}{32}$	1.52851	1140.2933	1.52958	1145.9283	1.53065	1151.5772
$\frac{1}{4}$	1.52854	1140.4692	1.52961	1146.1046	1.53068	1151.7539
$\frac{9}{32}$	1.52858	1140.6451	1.52965	1146.2809	1.53071	1151.9307
$\frac{5}{16}$	1.52861	1140.8210	1.52968	1146.4573	1.53075	1152.1074
$\frac{11}{32}$	1.52864	1140.9969	1.52971	1146.6336	1.53078	1152.2842
$\frac{3}{8}$	1.52868	1141.1729	1.52975	1146.8100	1.53081	1152.4610
$\frac{13}{32}$	1.52871	1141.3488	1.52978	1146.9864	1.53085	1152.6379
$\frac{7}{16}$	1.52874	1141.5248	1.52981	1147.1628	1.53088	1152.8147
$\frac{15}{32}$	1.52878	1141.7007	1.52985	1147.3392	1.53091	1152.9915
$\frac{1}{2}$	1.52881	1141.8767	1.52988	1147.5156	1.53095	1153.1684
$\frac{17}{32}$	1.52884	1142.0527	1.52991	1147.6921	1.53098	1153.3453
$\frac{9}{16}$	1.52888	1142.2288	1.52995	1147.8685	1.53101	1153.5222
$\frac{19}{32}$	1.52891	1142.4048	1.52998	1148.0450	1.53105	1153.6991
$\frac{5}{8}$	1.52894	1142.5808	1.53001	1148.2215	1.53108	1153.8760
$\frac{21}{32}$	1.52898	1142.7569	1.53005	1148.3980	1.53111	1154.0529
$\frac{11}{16}$	1.52901	1142.9330	1.53008	1148.5745	1.53115	1154.2298
$\frac{23}{32}$	1.52904	1143.1091	1.53011	1148.7510	1.53118	1154.4068
$\frac{3}{4}$	1.52908	1143.2852	1.53015	1148.9275	1.53121	1154.5838
$\frac{25}{32}$	1.52911	1143.4613	1.53018	1149.1041	1.53125	1154.7607
$\frac{13}{16}$	1.52914	1143.6374	1.53021	1149.2806	1.53128	1154.9377
$\frac{27}{32}$	1.52918	1143.8135	1.53025	1149.4572	1.53131	1155.1148
$\frac{7}{8}$	1.52921	1143.9897	1.53028	1149.6338	1.53135	1155.2918
$\frac{29}{32}$	1.52924	1144.1659	1.53031	1149.8104	1.53138	1155.4688
$\frac{15}{16}$	1.52928	1144.3420	1.53035	1149.9870	1.53141	1155.6459
$\frac{31}{32}$	1.52931	1144.5182	1.53038	1150.1636	1.53145	1155.8229
1	1.52934	1144.6944	1.53041	1150.3403	1.53148	1156.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.53148	1156.0000	1.53254	1161.6736	1.53360	1167.3611
$\frac{1}{32}$	1.53151	1156.1771	1.53258	1161.8511	1.53364	1167.5391
$\frac{1}{16}$	1.53155	1156.3542	1.53261	1162.0287	1.53367	1167.7170
$\frac{3}{32}$	1.53158	1156.5313	1.53264	1162.2062	1.53370	1167.8950
$\frac{1}{8}$	1.53161	1156.7084	1.53267	1162.3838	1.53373	1168.0730
$\frac{5}{32}$	1.53165	1156.8856	1.53271	1162.5614	1.53377	1168.2510
$\frac{3}{16}$	1.53168	1157.0627	1.53274	1162.7390	1.53380	1168.4291
$\frac{7}{32}$	1.53171	1157.2399	1.53277	1162.9166	1.53383	1168.6071
$\frac{1}{4}$	1.53174	1157.4171	1.53281	1163.0942	1.53387	1168.7852
$\frac{9}{32}$	1.53178	1157.5943	1.53284	1163.2718	1.53390	1168.9632
$\frac{5}{16}$	1.53181	1157.7715	1.53287	1163.4495	1.53393	1169.1413
$\frac{11}{32}$	1.53184	1157.9487	1.53291	1163.6271	1.53397	1169.3194
$\frac{3}{8}$	1.53188	1158.1260	1.53294	1163.8048	1.53400	1169.4975
$\frac{13}{32}$	1.53191	1158.3032	1.53297	1163.9825	1.53403	1169.6756
$\frac{7}{16}$	1.53194	1158.4805	1.53301	1164.1602	1.53407	1169.8538
$\frac{15}{32}$	1.53198	1158.6578	1.53304	1164.3379	1.53410	1170.0319
$\frac{1}{2}$	1.53201	1158.8351	1.53307	1164.5156	1.53413	1170.2101
$\frac{17}{32}$	1.53204	1159.0124	1.53311	1164.6934	1.53416	1170.3882
$\frac{9}{16}$	1.53208	1159.1897	1.53314	1164.8711	1.53420	1170.5664
$\frac{19}{32}$	1.53211	1159.3670	1.53317	1165.0489	1.53423	1170.7446
$\frac{5}{8}$	1.53214	1159.5444	1.53321	1165.2267	1.53426	1170.9229
$\frac{21}{32}$	1.53218	1159.7217	1.53324	1165.4045	1.53430	1171.1011
$\frac{11}{16}$	1.53221	1159.8991	1.53327	1165.5823	1.53433	1171.2793
$\frac{23}{32}$	1.53224	1160.0765	1.53330	1165.7601	1.53436	1171.4576
$\frac{3}{4}$	1.53228	1160.2539	1.53334	1165.9379	1.53440	1171.6359
$\frac{25}{32}$	1.53231	1160.4313	1.53337	1166.1158	1.53443	1171.8141
$\frac{13}{16}$	1.53234	1160.6088	1.53340	1166.2936	1.53446	1171.9924
$\frac{27}{32}$	1.53238	1160.7862	1.53344	1166.4715	1.53450	1172.1707
$\frac{7}{8}$	1.53241	1160.9636	1.53347	1166.6494	1.53453	1172.3491
$\frac{29}{32}$	1.53244	1161.1411	1.53350	1166.8273	1.53456	1172.5274
$\frac{15}{16}$	1.53248	1161.3186	1.53354	1167.0052	1.53459	1172.7058
$\frac{31}{32}$	1.53251	1161.4961	1.53357	1167.1832	1.53463	1172.8841
1	1.53254	1161.6736	1.53360	1167.3611	1.53466	1173.0625

34'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.53466	1173.0625	1.53572	1178.7778	1.53677	1184.5069
$\frac{1}{32}$	1.53469	1173.2409	1.53575	1178.9566	1.53680	1184.6862
$\frac{1}{16}$	1.53473	1173.4193	1.53578	1179.1354	1.53683	1184.8655
$\frac{3}{32}$	1.53476	1173.5977	1.53581	1179.3143	1.53687	1185.0448
$\frac{1}{8}$	1.53479	1173.7762	1.53585	1179.4932	1.53690	1185.2241
$\frac{5}{32}$	1.53483	1173.9546	1.53588	1179.6720	1.53693	1185.4034
$\frac{3}{16}$	1.53486	1174.1331	1.53591	1179.8509	1.53697	1185.5827
$\frac{7}{32}$	1.53489	1174.3115	1.53595	1180.0298	1.53700	1185.7621
$\frac{1}{4}$	1.53492	1174.4900	1.53598	1180.2088	1.53703	1185.9414
$\frac{9}{32}$	1.53496	1174.6685	1.53601	1180.3877	1.53706	1186.1208
$\frac{5}{16}$	1.53499	1174.8470	1.53605	1180.5667	1.53710	1186.3002
$\frac{11}{32}$	1.53502	1175.0256	1.53608	1180.7456	1.53713	1186.4796
$\frac{3}{8}$	1.53506	1175.2041	1.53611	1180.9246	1.53716	1186.6590
$\frac{13}{32}$	1.53509	1175.3827	1.53614	1181.1036	1.53720	1186.8384
$\frac{7}{16}$	1.53512	1175.5612	1.53618	1181.2826	1.53723	1187.0178
$\frac{15}{32}$	1.53516	1175.7398	1.53621	1181.4616	1.53726	1187.1973
$\frac{1}{2}$	1.53519	1175.9184	1.53624	1181.6406	1.53729	1187.3767
$\frac{17}{32}$	1.53522	1176.0970	1.53628	1181.8197	1.53733	1187.5562
$\frac{9}{16}$	1.53525	1176.2756	1.53631	1181.9987	1.53736	1187.7357
$\frac{19}{32}$	1.53529	1176.4543	1.53634	1182.1778	1.53739	1187.9152
$\frac{5}{8}$	1.53532	1176.6329	1.53637	1182.3569	1.53743	1188.0947
$\frac{21}{32}$	1.53535	1176.8116	1.53641	1182.5360	1.53746	1188.2743
$\frac{11}{16}$	1.53539	1176.9903	1.53644	1182.7151	1.53749	1188.4538
$\frac{23}{32}$	1.53542	1177.1690	1.53647	1182.8942	1.53752	1188.6334
$\frac{3}{4}$	1.53545	1177.3477	1.53651	1183.0734	1.53756	1188.8129
$\frac{25}{32}$	1.53549	1177.5264	1.53654	1183.2525	1.53759	1188.9925
$\frac{13}{16}$	1.53552	1177.7051	1.53657	1183.4317	1.53762	1189.1721
$\frac{27}{32}$	1.53555	1177.8838	1.53660	1183.6108	1.53766	1189.3517
$\frac{7}{8}$	1.53558	1178.0626	1.53664	1183.7900	1.53769	1189.5314
$\frac{29}{32}$	1.53562	1178.2414	1.53667	1183.9692	1.53772	1189.7110
$\frac{15}{16}$	1.53565	1178.4202	1.53670	1184.1485	1.53775	1189.8907
$\frac{31}{32}$	1.53568	1178.5990	1.53674	1184.3277	1.53779	1190.0703
1	1.53572	1178.7778	1.53677	1184.5069	1.53782	1190.2500

34'

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.53782	1190.2500	1.53887	1196.0069	1.53991	1201.7778
$\frac{1}{32}$	1.53785	1190.4297	1.53890	1196.1871	1.53994	1201.9583
$\frac{1}{16}$	1.53788	1190.6094	1.53893	1196.3672	1.53998	1202.1389
$\frac{3}{32}$	1.53792	1190.7891	1.53896	1196.5474	1.54001	1202.3195
$\frac{1}{8}$	1.53795	1190.9689	1.53900	1196.7275	1.54004	1202.5001
$\frac{5}{32}$	1.53798	1191.1486	1.53903	1196.9077	1.54008	1202.6807
$\frac{3}{16}$	1.53802	1191.3284	1.53906	1197.0879	1.54011	1202.8614
$\frac{7}{32}$	1.53805	1191.5081	1.53910	1197.2681	1.54014	1203.0420
$\frac{1}{4}$	1.53808	1191.6879	1.53913	1197.4484	1.54017	1203.2227
$\frac{9}{32}$	1.53811	1191.8677	1.53916	1197.6286	1.54021	1203.4033
$\frac{5}{16}$	1.53815	1192.0476	1.53919	1197.8088	1.54024	1203.5840
$\frac{11}{32}$	1.53818	1192.2274	1.53923	1197.9891	1.54027	1203.7647
$\frac{3}{8}$	1.53821	1192.4072	1.53926	1198.1694	1.54030	1203.9454
$\frac{13}{32}$	1.53825	1192.5871	1.53929	1198.3497	1.54034	1204.1261
$\frac{7}{16}$	1.53828	1192.7670	1.53932	1198.5300	1.54037	1204.3069
$\frac{15}{32}$	1.53831	1192.9468	1.53936	1198.7103	1.54040	1204.4876
$\frac{1}{2}$	1.53834	1193.1267	1.53939	1198.8906	1.54043	1204.6684
$\frac{17}{32}$	1.53838	1193.3066	1.53942	1199.0710	1.54047	1204.8492
$\frac{9}{16}$	1.53841	1193.4866	1.53946	1199.2513	1.54050	1205.0300
$\frac{19}{32}$	1.53844	1193.6665	1.53949	1199.4317	1.54053	1205.2108
$\frac{5}{8}$	1.53847	1193.8465	1.53952	1199.6121	1.54056	1205.3916
$\frac{21}{32}$	1.53851	1194.0264	1.53955	1199.7925	1.54060	1205.5724
$\frac{11}{16}$	1.53854	1194.2064	1.53959	1199.9729	1.54063	1205.7533
$\frac{23}{32}$	1.53857	1194.3864	1.53962	1200.1533	1.54066	1205.9341
$\frac{3}{4}$	1.53861	1194.5664	1.53965	1200.3338	1.54069	1206.1150
$\frac{25}{32}$	1.53864	1194.7464	1.53968	1200.5142	1.54073	1206.2959
$\frac{13}{16}$	1.53867	1194.9265	1.53972	1200.6947	1.54076	1206.4768
$\frac{27}{32}$	1.53870	1195.1065	1.53975	1200.8752	1.54079	1206.6577
$\frac{7}{8}$	1.53874	1195.2866	1.53978	1201.0557	1.54082	1206.8387
$\frac{29}{32}$	1.53877	1195.4666	1.53981	1201.2362	1.54086	1207.0196
$\frac{15}{8}$	1.53880	1195.6467	1.53985	1201.4167	1.54089	1207.2005
$\frac{31}{32}$	1.53883	1195.8268	1.53988	1201.5972	1.54092	1207.3815
1	1.53887	1196.0069	1.53991	1201.7778	1.54095	1207.5625

34'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.54095	1207.5625	1.54200	1213.3611	1.54303	1219.1736
$\frac{1}{32}$	1.54099	1207.7435	1.54203	1213.5425	1.54307	1219.3555
$\frac{1}{16}$	1.54102	1207.9245	1.54206	1213.7240	1.54310	1219.5374
$\frac{3}{32}$	1.54105	1208.1055	1.54209	1213.9054	1.54313	1219.7192
$\frac{1}{8}$	1.54108	1208.2866	1.54212	1214.0869	1.54316	1219.9012
$\frac{5}{32}$	1.54112	1208.4676	1.54216	1214.2684	1.54319	1220.0831
$\frac{3}{16}$	1.54115	1208.6487	1.54219	1214.4499	1.54323	1220.2650
$\frac{7}{32}$	1.54118	1208.8298	1.54222	1214.6314	1.54326	1220.4469
$\frac{1}{4}$	1.54122	1209.0109	1.54225	1214.8129	1.54329	1220.6289
$\frac{9}{32}$	1.54125	1209.1920	1.54229	1214.9945	1.54332	1220.8109
$\frac{5}{16}$	1.54128	1209.3731	1.54232	1215.1760	1.54336	1220.9929
$\frac{11}{32}$	1.54131	1209.5542	1.54235	1215.3576	1.54339	1221.1749
$\frac{3}{8}$	1.54135	1209.7354	1.54238	1215.5392	1.54342	1221.3569
$\frac{13}{32}$	1.54138	1209.9165	1.54242	1215.7208	1.54345	1221.5389
$\frac{7}{16}$	1.54141	1210.0977	1.54245	1215.9024	1.54349	1221.7209
$\frac{15}{32}$	1.54144	1210.2789	1.54248	1216.0840	1.54352	1221.9030
$\frac{1}{2}$	1.54148	1210.4601	1.54251	1216.2656	1.54355	1222.0851
$\frac{17}{32}$	1.54151	1210.6413	1.54255	1216.4473	1.54358	1222.2672
$\frac{9}{16}$	1.54154	1210.8225	1.54258	1216.6289	1.54362	1222.4492
$\frac{19}{32}$	1.54157	1211.0038	1.54261	1216.8106	1.54365	1222.6314
$\frac{5}{8}$	1.54161	1211.1850	1.54264	1216.9923	1.54368	1222.8135
$\frac{21}{32}$	1.54164	1211.3663	1.54268	1217.1740	1.54371	1222.9956
$\frac{11}{16}$	1.54167	1211.5476	1.54271	1217.3557	1.54374	1223.1778
$\frac{23}{32}$	1.54170	1211.7288	1.54274	1217.5374	1.54378	1223.3599
$\frac{3}{4}$	1.54174	1211.9102	1.54277	1217.7192	1.54381	1223.5421
$\frac{25}{32}$	1.54177	1212.0915	1.54281	1217.9009	1.54384	1223.7243
$\frac{13}{16}$	1.54180	1212.2728	1.54284	1218.0827	1.54387	1223.9065
$\frac{27}{32}$	1.54183	1212.4542	1.54287	1218.2645	1.54391	1224.0887
$\frac{7}{8}$	1.54187	1212.6355	1.54290	1218.4463	1.54394	1224.2709
$\frac{29}{32}$	1.54190	1212.8169	1.54294	1218.6281	1.54397	1224.4532
$\frac{15}{16}$	1.54193	1212.9983	1.54297	1218.8099	1.54400	1224.6354
$\frac{31}{32}$	1.54196	1213.1797	1.54300	1218.9918	1.54404	1224.8177
1	1.54200	1213.3611	1.54303	1219.1736	1.54407	1225.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.54407	1225.0000	1.54510	1230.8403	1.54613	1236.6944
$\frac{1}{32}$	1.54410	1225.1823	1.54513	1231.0230	1.54616	1236.8776
$\frac{1}{16}$	1.54413	1225.3646	1.54517	1231.2058	1.54620	1237.0608
$\frac{3}{32}$	1.54416	1225.5469	1.54520	1231.3885	1.54623	1237.2440
$\frac{1}{8}$	1.54420	1225.7293	1.54523	1231.5713	1.54626	1237.4272
$\frac{5}{32}$	1.54423	1225.9116	1.54526	1231.7541	1.54629	1237.6104
$\frac{3}{16}$	1.54426	1226.0940	1.54529	1231.9369	1.54632	1237.7936
$\frac{7}{32}$	1.54429	1226.2764	1.54533	1232.1197	1.54636	1237.9769
$\frac{1}{4}$	1.54433	1226.4588	1.54536	1232.3025	1.54639	1238.1602
$\frac{9}{32}$	1.54436	1226.6412	1.54539	1232.4854	1.54642	1238.3434
$\frac{5}{16}$	1.54439	1226.8236	1.54542	1232.6682	1.54645	1238.5267
$\frac{11}{32}$	1.54442	1227.0060	1.54546	1232.8511	1.54648	1238.7100
$\frac{3}{8}$	1.54446	1227.1885	1.54549	1233.0340	1.54652	1238.8933
$\frac{13}{32}$	1.54449	1227.3709	1.54552	1233.2169	1.54655	1239.0767
$\frac{7}{16}$	1.54452	1227.5534	1.54555	1233.3998	1.54658	1239.2600
$\frac{15}{32}$	1.54455	1227.7359	1.54558	1233.5827	1.54661	1239.4434
$\frac{1}{2}$	1.54458	1227.9184	1.54562	1233.7656	1.54665	1239.6267
$\frac{17}{32}$	1.54462	1228.1009	1.54565	1233.9486	1.54668	1239.8101
$\frac{9}{16}$	1.54465	1228.2834	1.54568	1234.1315	1.54671	1239.9935
$\frac{19}{32}$	1.54468	1228.4660	1.54571	1234.3145	1.54674	1240.1769
$\frac{5}{8}$	1.54471	1228.6485	1.54575	1234.4975	1.54677	1240.3604
$\frac{21}{32}$	1.54475	1228.8311	1.54578	1234.6805	1.54681	1240.5438
$\frac{11}{16}$	1.54478	1229.0137	1.54581	1234.8635	1.54684	1240.7272
$\frac{23}{32}$	1.54481	1229.1963	1.54584	1235.0466	1.54687	1240.9107
$\frac{3}{4}$	1.54484	1229.3789	1.54587	1235.2296	1.54690	1241.0942
$\frac{25}{32}$	1.54488	1229.5615	1.54591	1235.4127	1.54693	1241.2777
$\frac{13}{16}$	1.54491	1229.7442	1.54594	1235.5957	1.54697	1241.4612
$\frac{27}{32}$	1.54494	1229.9268	1.54597	1235.7788	1.54700	1241.6447
$\frac{7}{8}$	1.54497	1230.1095	1.54600	1235.9619	1.54703	1241.8282
$\frac{29}{32}$	1.54500	1230.2922	1.54603	1236.1450	1.54706	1242.0118
$\frac{15}{16}$	1.54504	1230.4749	1.54607	1236.3282	1.54709	1242.1953
$\frac{31}{32}$	1.54507	1230.6576	1.54610	1236.5113	1.54713	1242.3789
1	1.54510	1230.8403	1.54613	1236.6944	1.54716	1242.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.54716	1242.5625	1.54818	1248.4444	1.54921	1254.3403
$\frac{1}{32}$	1.54719	1242.7461	1.54822	1248.6285	1.54924	1254.5247
$\frac{1}{16}$	1.54722	1242.9297	1.54825	1248.8125	1.54927	1254.7092
$\frac{3}{32}$	1.54726	1243.1133	1.54828	1248.9966	1.54930	1254.8937
$\frac{1}{8}$	1.54729	1243.2970	1.54831	1249.1807	1.54934	1255.0782
$\frac{5}{32}$	1.54732	1243.4806	1.54834	1249.3648	1.54937	1255.2628
$\frac{3}{16}$	1.54735	1243.6643	1.54838	1249.5489	1.54940	1255.4473
$\frac{7}{32}$	1.54738	1243.8480	1.54841	1249.7330	1.54943	1255.6318
$\frac{1}{4}$	1.54742	1244.0317	1.54844	1249.9171	1.54946	1255.8164
$\frac{9}{32}$	1.54745	1244.2154	1.54847	1250.1012	1.54949	1256.0010
$\frac{5}{16}$	1.54748	1244.3991	1.54850	1250.2854	1.54953	1256.1856
$1\frac{1}{32}$	1.54751	1244.5829	1.54854	1250.4696	1.54956	1256.3702
$\frac{3}{8}$	1.54754	1244.7666	1.54857	1250.6538	1.54959	1256.5548
$1\frac{3}{32}$	1.54758	1244.9504	1.54860	1250.8380	1.54962	1256.7394
$\frac{7}{16}$	1.54761	1245.1341	1.54863	1251.0222	1.54965	1256.9241
$1\frac{5}{32}$	1.54764	1245.3179	1.54866	1251.2064	1.54969	1257.1087
$\frac{1}{2}$	1.54767	1245.5017	1.54870	1251.3906	1.54972	1257.2934
$1\frac{7}{32}$	1.54770	1245.6856	1.54873	1251.5749	1.54975	1257.4781
$\frac{9}{16}$	1.54774	1245.8694	1.54876	1251.7591	1.54978	1257.6628
$1\frac{9}{32}$	1.54777	1246.0532	1.54879	1251.9434	1.54981	1257.8475
$\frac{5}{8}$	1.54780	1246.2371	1.54882	1252.1277	1.54985	1258.0322
$2\frac{1}{32}$	1.54783	1246.4210	1.54886	1252.3120	1.54988	1258.2170
$1\frac{11}{16}$	1.54786	1246.6048	1.54889	1252.4963	1.54991	1258.4017
$2\frac{3}{32}$	1.54790	1246.7887	1.54892	1252.6807	1.54994	1258.5865
$\frac{3}{4}$	1.54793	1246.9727	1.54895	1252.8650	1.54997	1258.7713
$2\frac{5}{32}$	1.54796	1247.1566	1.54898	1253.0494	1.55001	1258.9561
$1\frac{13}{16}$	1.54799	1247.3405	1.54902	1253.2338	1.55004	1259.1409
$2\frac{7}{32}$	1.54802	1247.5245	1.54905	1253.4181	1.55007	1259.3257
$\frac{7}{8}$	1.54806	1247.7084	1.54908	1253.6025	1.55010	1259.5105
$2\frac{9}{32}$	1.54809	1247.8924	1.54911	1253.7870	1.55013	1259.6954
$1\frac{15}{16}$	1.54812	1248.0764	1.54914	1253.9714	1.55016	1259.8802
$3\frac{1}{32}$	1.54815	1248.2604	1.54918	1254.1558	1.55020	1260.0651
1	1.54818	1248.4444	1.54921	1254.3403	1.55023	1260.2500

35'

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.55023	1260.2500	1.55125	1266.1736	1.55226	1272.1111
$\frac{1}{32}$	1.55026	1260.4349	1.55128	1266.3589	1.55229	1272.2969
$\frac{1}{16}$	1.55029	1260.6198	1.55131	1266.5443	1.55233	1272.4827
$\frac{3}{32}$	1.55032	1260.8047	1.55134	1266.7297	1.55236	1272.6685
$\frac{1}{8}$	1.55036	1260.9897	1.55137	1266.9150	1.55239	1272.8543
$\frac{5}{32}$	1.55039	1261.1746	1.55141	1267.1004	1.55242	1273.0401
$\frac{3}{16}$	1.55042	1261.3596	1.55144	1267.2858	1.55245	1273.2259
$\frac{7}{32}$	1.55045	1261.5446	1.55147	1267.4713	1.55248	1273.4118
$\frac{1}{4}$	1.55048	1261.7296	1.55150	1267.6567	1.55252	1273.5977
$\frac{9}{32}$	1.55051	1261.9146	1.55153	1267.8421	1.55255	1273.7835
$\frac{5}{16}$	1.55055	1262.0996	1.55156	1268.0276	1.55258	1273.9694
$\frac{11}{32}$	1.55058	1262.2847	1.55160	1268.2131	1.55261	1274.1553
$\frac{3}{8}$	1.55061	1262.4697	1.55163	1268.3985	1.55264	1274.3413
$\frac{13}{32}$	1.55064	1262.6548	1.55166	1268.5840	1.55267	1274.5272
$\frac{7}{16}$	1.55067	1262.8399	1.55169	1268.7696	1.55271	1274.7131
$\frac{15}{32}$	1.55071	1263.0250	1.55172	1268.9551	1.55274	1274.8991
$\frac{1}{2}$	1.55074	1263.2101	1.55175	1269.1406	1.55277	1275.0851
$\frac{17}{32}$	1.55077	1263.3952	1.55179	1269.3262	1.55280	1275.2711
$\frac{9}{16}$	1.55080	1263.5803	1.55182	1269.5117	1.55283	1275.4571
$\frac{19}{32}$	1.55083	1263.7655	1.55185	1269.6973	1.55286	1275.6431
$\frac{5}{8}$	1.55087	1263.9506	1.55188	1269.8829	1.55290	1275.8291
$\frac{21}{32}$	1.55090	1264.1358	1.55191	1270.0685	1.55293	1276.0151
$\frac{11}{16}$	1.55093	1264.3210	1.55195	1270.2542	1.55296	1276.2012
$\frac{23}{32}$	1.55096	1264.5062	1.55198	1270.4398	1.55299	1276.3873
$\frac{3}{4}$	1.55099	1264.6914	1.55201	1270.6254	1.55302	1276.5734
$\frac{25}{32}$	1.55102	1264.8766	1.55204	1270.8111	1.55305	1276.7594
$\frac{13}{16}$	1.55106	1265.0619	1.55207	1270.9968	1.55309	1276.9456
$\frac{27}{32}$	1.55109	1265.2471	1.55210	1271.1825	1.55312	1277.1317
$\frac{7}{8}$	1.55112	1265.4324	1.55214	1271.3682	1.55315	1277.3178
$\frac{29}{32}$	1.55115	1265.6177	1.55217	1271.5539	1.55318	1277.5040
$\frac{15}{16}$	1.55118	1265.8030	1.55220	1271.7396	1.55321	1277.6901
$\frac{31}{32}$	1.55121	1265.9883	1.55223	1271.9254	1.55324	1277.8763
1	1.55125	1266.1736	1.55226	1272.1111	1.55328	1278.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.55328	1278.0625	1.55429	1284.0278	1.55530	1290.0069
$\frac{1}{32}$	1.55331	1278.2487	1.55432	1284.2144	1.55533	1290.1940
$\frac{1}{16}$	1.55334	1278.4349	1.55435	1284.4011	1.55536	1290.3811
$\frac{3}{32}$	1.55337	1278.6212	1.55438	1284.5877	1.55539	1290.5682
$\frac{1}{8}$	1.55340	1278.8074	1.55441	1284.7744	1.55542	1290.7553
$\frac{5}{32}$	1.55343	1278.9937	1.55444	1284.9611	1.55545	1290.9424
$\frac{3}{16}$	1.55347	1279.1799	1.55448	1285.1478	1.55548	1291.1296
$\frac{7}{32}$	1.55350	1279.3662	1.55451	1285.3345	1.55552	1291.3167
$\frac{1}{4}$	1.55353	1279.5525	1.55454	1285.5213	1.55555	1291.5039
$\frac{9}{32}$	1.55356	1279.7388	1.55457	1285.7080	1.55558	1291.6911
$\frac{5}{16}$	1.55359	1279.9252	1.55460	1285.8948	1.55561	1291.8783
$\frac{11}{32}$	1.55362	1280.1115	1.55463	1286.0815	1.55564	1292.0655
$\frac{3}{8}$	1.55366	1280.2979	1.55467	1286.2683	1.55567	1292.2527
$\frac{13}{32}$	1.55369	1280.4842	1.55470	1286.4551	1.55571	1292.4399
$\frac{7}{16}$	1.55372	1280.6706	1.55473	1286.6420	1.55574	1292.6272
$\frac{15}{32}$	1.55375	1280.8570	1.55476	1286.8288	1.55577	1292.8145
$\frac{1}{2}$	1.55378	1281.0434	1.55479	1287.0156	1.55580	1293.0017
$\frac{17}{32}$	1.55381	1281.2298	1.55482	1287.2025	1.55583	1293.1890
$\frac{9}{16}$	1.55385	1281.4163	1.55485	1287.3894	1.55586	1293.3763
$\frac{19}{32}$	1.55388	1281.6027	1.55489	1287.5762	1.55589	1293.5636
$\frac{5}{8}$	1.55391	1281.7892	1.55492	1287.7631	1.55593	1293.7510
$\frac{21}{32}$	1.55394	1281.9756	1.55495	1287.9500	1.55596	1293.9383
$\frac{11}{16}$	1.55397	1282.1621	1.55498	1288.1370	1.55599	1294.1257
$\frac{23}{32}$	1.55400	1282.3486	1.55501	1288.3239	1.55602	1294.3130
$\frac{3}{4}$	1.55403	1282.5352	1.55504	1288.5109	1.55605	1294.5004
$\frac{25}{32}$	1.55407	1282.7217	1.55508	1288.6978	1.55608	1294.6878
$\frac{13}{16}$	1.55410	1282.9082	1.55511	1288.8848	1.55611	1294.8752
$\frac{27}{32}$	1.55413	1283.0948	1.55514	1289.0718	1.55615	1295.0627
$\frac{7}{8}$	1.55416	1283.2814	1.55517	1289.2588	1.55618	1295.2501
$\frac{29}{32}$	1.55419	1283.4679	1.55520	1289.4458	1.55621	1295.4376
$\frac{15}{16}$	1.55422	1283.6545	1.55523	1289.6328	1.55624	1295.6250
$\frac{31}{32}$	1.55426	1283.8412	1.55526	1289.8199	1.55627	1295.8125
1	1.55429	1284.0278	1.55530	1290.0069	1.55630	1296.0000

36'

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.55630	1296.0000	1.55731	1302.0069	1.55831	1308.0278
$\frac{1}{82}$	1.55633	1296.1875	1.55734	1302.1949	1.55834	1308.2162
$\frac{1}{16}$	1.55637	1296.3750	1.55737	1302.3828	1.55837	1308.4045
$\frac{3}{82}$	1.55640	1296.5626	1.55740	1302.5708	1.55840	1308.5929
$\frac{1}{8}$	1.55643	1296.7501	1.55743	1302.7588	1.55843	1308.7814
$\frac{5}{82}$	1.55646	1296.9377	1.55746	1302.9468	1.55846	1308.9698
$\frac{3}{16}$	1.55649	1297.1252	1.55749	1303.1348	1.55850	1309.1582
$\frac{7}{82}$	1.55652	1297.3128	1.55753	1303.3228	1.55853	1309.3467
$\frac{1}{4}$	1.55655	1297.5004	1.55756	1303.5109	1.55856	1309.5352
$\frac{9}{82}$	1.55659	1297.6880	1.55759	1303.6989	1.55859	1309.7236
$\frac{5}{16}$	1.55662	1297.8757	1.55762	1303.8870	1.55862	1309.9121
$\frac{11}{82}$	1.55665	1298.0633	1.55765	1304.0750	1.55865	1310.1006
$\frac{3}{8}$	1.55668	1298.2510	1.55768	1304.2631	1.55868	1310.2892
$\frac{13}{82}$	1.55671	1298.4386	1.55771	1304.4512	1.55871	1310.4777
$\frac{7}{16}$	1.55674	1298.6263	1.55775	1304.6393	1.55875	1310.6663
$\frac{15}{82}$	1.55677	1298.8140	1.55778	1304.8275	1.55878	1310.8548
$\frac{1}{2}$	1.55680	1299.0017	1.55781	1305.0156	1.55881	1311.0434
$\frac{17}{82}$	1.55684	1299.1895	1.55784	1305.2038	1.55884	1311.2320
$\frac{9}{16}$	1.55687	1299.3772	1.55787	1305.3920	1.55887	1311.4206
$\frac{19}{82}$	1.55690	1299.5649	1.55790	1305.5801	1.55890	1311.6092
$\frac{5}{8}$	1.55693	1299.7527	1.55793	1305.7683	1.55893	1311.7979
$\frac{21}{82}$	1.55696	1299.9405	1.55796	1305.9565	1.55896	1311.9865
$\frac{11}{16}$	1.55699	1300.1283	1.55800	1306.1448	1.55900	1312.1752
$\frac{23}{82}$	1.55702	1300.3161	1.55803	1306.3330	1.55903	1312.3638
$\frac{3}{4}$	1.55706	1300.5039	1.55806	1306.5213	1.55906	1312.5525
$\frac{25}{82}$	1.55709	1300.6917	1.55809	1306.7095	1.55909	1312.7412
$\frac{13}{16}$	1.55712	1300.8796	1.55812	1306.8978	1.55912	1312.9299
$\frac{27}{82}$	1.55715	1301.0674	1.55815	1307.0861	1.55915	1313.1187
$\frac{7}{8}$	1.55718	1301.2553	1.55818	1307.2744	1.55918	1313.3074
$\frac{29}{82}$	1.55721	1301.4432	1.55821	1307.4627	1.55921	1313.4962
$\frac{15}{16}$	1.55724	1301.6311	1.55825	1307.6511	1.55925	1313.6849
$\frac{31}{82}$	1.55728	1301.8190	1.55828	1307.8394	1.55928	1313.8737
1	1.55731	1302.0069	1.55831	1308.0278	1.55931	1314.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.55931	1314.0625	1.56031	1320.1111	1.56130	1326.1736
$\frac{1}{32}$	1.55934	1314.2513	1.56034	1320.3004	1.56133	1326.3633
$\frac{1}{16}$	1.55937	1314.4401	1.56037	1320.4896	1.56136	1326.5530
$\frac{3}{32}$	1.55940	1314.6290	1.56040	1320.6789	1.56139	1326.7427
$\frac{1}{8}$	1.55943	1314.8178	1.56043	1320.8682	1.56142	1326.9324
$\frac{5}{32}$	1.55946	1315.0067	1.56046	1321.0575	1.56146	1327.1221
$\frac{3}{16}$	1.55950	1315.1956	1.56049	1321.2468	1.56149	1327.3119
$\frac{7}{32}$	1.55953	1315.3844	1.56052	1321.4361	1.56152	1327.5016
$\frac{1}{4}$	1.55956	1315.5734	1.56055	1321.6254	1.56155	1327.6914
$\frac{9}{32}$	1.55959	1315.7623	1.56059	1321.8148	1.56158	1327.8812
$\frac{5}{16}$	1.55962	1315.9512	1.56062	1322.0042	1.56161	1328.0710
$1\frac{1}{32}$	1.55965	1316.1401	1.56065	1322.1935	1.56164	1328.2608
$\frac{3}{8}$	1.55968	1316.3291	1.56068	1322.3829	1.56167	1328.4506
$1\frac{3}{32}$	1.55971	1316.5181	1.56071	1322.5723	1.56170	1328.6405
$\frac{7}{16}$	1.55974	1316.7071	1.56074	1322.7617	1.56173	1328.8303
$1\frac{5}{32}$	1.55978	1316.8961	1.56077	1322.9512	1.56177	1329.0202
$\frac{1}{2}$	1.55981	1317.0851	1.56080	1323.1406	1.56180	1329.2101
$1\frac{7}{32}$	1.55984	1317.2741	1.56083	1323.3301	1.56183	1329.4000
$\frac{9}{16}$	1.55987	1317.4631	1.56087	1323.5196	1.56186	1329.5899
$1\frac{9}{32}$	1.55990	1317.6522	1.56090	1323.7090	1.56189	1329.7798
$\frac{5}{8}$	1.55993	1317.8413	1.56093	1323.8985	1.56192	1329.9697
$2\frac{1}{32}$	1.55996	1318.0303	1.56096	1324.0881	1.56195	1330.1597
$1\frac{11}{16}$	1.55999	1318.2194	1.56099	1324.2776	1.56198	1330.3496
$2\frac{3}{32}$	1.56003	1318.4085	1.56102	1324.4671	1.56201	1330.5396
$\frac{3}{4}$	1.56006	1318.5977	1.56105	1324.6567	1.56204	1330.7296
$2\frac{5}{32}$	1.56009	1318.7868	1.56108	1324.8463	1.56208	1330.9196
$1\frac{13}{16}$	1.56012	1318.9759	1.56111	1325.0358	1.56211	1331.1096
$2\frac{7}{32}$	1.56015	1319.1651	1.56114	1325.2254	1.56214	1331.2996
$\frac{7}{8}$	1.56018	1319.3543	1.56118	1325.4150	1.56217	1331.4897
$2\frac{9}{32}$	1.56021	1319.5435	1.56121	1325.6047	1.56220	1331.6797
$1\frac{15}{16}$	1.56024	1319.7327	1.56124	1325.7943	1.56223	1331.8698
$3\frac{1}{32}$	1.56027	1319.9219	1.56127	1325.9839	1.56226	1332.0599
1	1.56031	1320.1111	1.56130	1326.1736	1.56229	1332.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.56229	1332.2500	1.56328	1338.3403	1.56427	1344.4444
$\frac{1}{32}$	1.56232	1332.4401	1.56331	1338.5308	1.56430	1344.6354
$\frac{1}{16}$	1.56235	1332.6302	1.56335	1338.7214	1.56433	1344.8264
$\frac{3}{32}$	1.56239	1332.8204	1.56338	1338.9120	1.56436	1345.0174
$\frac{1}{8}$	1.56242	1333.0105	1.56341	1339.1025	1.56439	1345.2084
$\frac{5}{32}$	1.56245	1333.2007	1.56344	1339.2931	1.56443	1345.3995
$\frac{3}{16}$	1.56248	1333.3909	1.56347	1339.4838	1.56446	1345.5905
$\frac{7}{32}$	1.56251	1333.5811	1.56350	1339.6744	1.56449	1345.7816
$\frac{1}{4}$	1.56254	1333.7713	1.56353	1339.8650	1.56452	1345.9727
$\frac{9}{32}$	1.56257	1333.9615	1.56356	1340.0557	1.56455	1346.1637
$\frac{5}{16}$	1.56260	1334.1517	1.56359	1340.2463	1.56458	1346.3548
$\frac{11}{32}$	1.56263	1334.3420	1.56362	1340.4370	1.56461	1346.5460
$\frac{3}{8}$	1.56266	1334.5322	1.56365	1340.6277	1.56464	1346.7371
$\frac{13}{32}$	1.56270	1334.7225	1.56368	1340.8184	1.56467	1346.9282
$\frac{7}{16}$	1.56273	1334.9128	1.56372	1341.0091	1.56470	1347.1194
$\frac{15}{32}$	1.56276	1335.1031	1.56375	1341.1999	1.56473	1347.3106
$\frac{1}{2}$	1.56279	1335.2934	1.56378	1341.3906	1.56476	1347.5017
$\frac{17}{32}$	1.56282	1335.4837	1.56381	1341.5814	1.56480	1347.6929
$\frac{9}{16}$	1.56285	1335.6741	1.56384	1341.7722	1.56483	1347.8841
$\frac{19}{32}$	1.56288	1335.8644	1.56387	1341.9630	1.56486	1348.0754
$\frac{5}{8}$	1.56291	1336.0548	1.56390	1342.1538	1.56489	1348.2666
$\frac{21}{32}$	1.56294	1336.2452	1.56393	1342.3446	1.56492	1348.4579
$\frac{11}{16}$	1.56297	1336.4356	1.56396	1342.5354	1.56495	1348.6491
$\frac{23}{32}$	1.56300	1336.6260	1.56399	1342.7262	1.56498	1348.8404
$\frac{3}{4}$	1.56304	1336.8164	1.56402	1342.9171	1.56501	1349.0317
$\frac{25}{32}$	1.56307	1337.0068	1.56406	1343.1080	1.56504	1349.2230
$\frac{13}{16}$	1.56310	1337.1973	1.56409	1343.2989	1.56507	1349.4143
$\frac{27}{32}$	1.56313	1337.3878	1.56412	1343.4898	1.56510	1349.6056
$\frac{7}{8}$	1.56316	1337.5782	1.56415	1343.6807	1.56513	1349.7970
$\frac{29}{32}$	1.56319	1337.7687	1.56418	1343.8716	1.56517	1349.9883
$\frac{15}{16}$	1.56322	1337.9592	1.56421	1344.0625	1.56520	1350.1797
$\frac{31}{32}$	1.56325	1338.1497	1.56424	1344.2535	1.56523	1350.3711
1	1.56328	1338.3403	1.56427	1344.4444	1.56526	1350.5625

36'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.56526	1350.5625	1.56624	1356.6944	1.56722	1362.8403
$\frac{1}{32}$	1.56529	1350.7539	1.56627	1356.8863	1.56725	1363.0326
$\frac{1}{16}$	1.56532	1350.9453	1.56630	1357.0782	1.56728	1363.2249
$\frac{3}{32}$	1.56535	1351.1368	1.56633	1357.2700	1.56731	1363.4172
$\frac{1}{8}$	1.56538	1351.3282	1.56636	1357.4619	1.56735	1363.6095
$\frac{5}{32}$	1.56541	1351.5197	1.56639	1357.6538	1.56738	1363.8018
$\frac{3}{16}$	1.56544	1351.7112	1.56643	1357.8457	1.56741	1363.9942
$\frac{7}{32}$	1.56547	1351.9027	1.56646	1358.0377	1.56744	1364.1865
$\frac{1}{4}$	1.56550	1352.0942	1.56649	1358.2296	1.56747	1364.3789
$\frac{9}{32}$	1.56553	1352.2857	1.56652	1358.4216	1.56750	1364.5713
$\frac{5}{16}$	1.56556	1352.4772	1.56655	1358.6135	1.56753	1364.7637
$\frac{11}{32}$	1.56560	1352.6688	1.56658	1358.8055	1.56756	1364.9561
$\frac{3}{8}$	1.56563	1352.8604	1.56661	1358.9975	1.56759	1365.1485
$\frac{13}{32}$	1.56566	1353.0519	1.56664	1359.1895	1.56762	1365.3410
$\frac{7}{16}$	1.56569	1353.2435	1.56667	1359.3815	1.56765	1365.5334
$\frac{15}{32}$	1.56572	1353.4351	1.56670	1359.5736	1.56768	1365.7259
$\frac{1}{2}$	1.56575	1353.6267	1.56673	1359.7656	1.56771	1365.9184
$\frac{17}{32}$	1.56578	1353.8184	1.56676	1359.9577	1.56774	1366.1109
$\frac{9}{16}$	1.56581	1354.0100	1.56679	1360.1498	1.56777	1366.3034
$\frac{19}{32}$	1.56584	1354.2017	1.56682	1360.3419	1.56780	1366.4959
$\frac{5}{8}$	1.56587	1354.3933	1.56685	1360.5340	1.56783	1366.6885
$\frac{21}{32}$	1.56590	1354.5850	1.56689	1360.7261	1.56787	1366.8810
$\frac{11}{16}$	1.56593	1354.7767	1.56692	1360.9182	1.56790	1367.0736
$\frac{23}{32}$	1.56596	1354.9684	1.56695	1361.1104	1.56793	1367.2662
$\frac{3}{4}$	1.56600	1355.1602	1.56698	1361.3025	1.56796	1367.4588
$\frac{25}{32}$	1.56603	1355.3519	1.56701	1361.4947	1.56799	1367.6514
$\frac{13}{16}$	1.56606	1355.5436	1.56704	1361.6869	1.56802	1367.8440
$\frac{27}{32}$	1.56609	1355.7354	1.56707	1361.8791	1.56805	1368.0366
$\frac{7}{8}$	1.56612	1355.9272	1.56710	1362.0713	1.56808	1368.2293
$\frac{29}{32}$	1.56615	1356.1190	1.56713	1362.2635	1.56811	1368.4219
$\frac{15}{16}$	1.56618	1356.3108	1.56716	1362.4558	1.56814	1368.6146
$\frac{31}{32}$	1.56621	1356.5026	1.56719	1362.6480	1.56817	1368.8073
1	1.56624	1356.6944	1.56722	1362.8403	1.56820	1369.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.56820	1369.0000	1.56918	1375.1736	1.57015	1381.3611
$\frac{1}{32}$	1.56823	1369.1927	1.56921	1375.3668	1.57018	1381.5547
$\frac{1}{16}$	1.56826	1369.3854	1.56924	1375.5599	1.57021	1381.7483
$\frac{3}{32}$	1.56829	1369.5782	1.56927	1375.7531	1.57024	1381.9419
$\frac{1}{8}$	1.56832	1369.7709	1.56930	1375.9463	1.57028	1382.1355
$\frac{5}{32}$	1.56835	1369.9637	1.56933	1376.1395	1.57031	1382.3292
$\frac{3}{16}$	1.56839	1370.1565	1.56936	1376.3327	1.57034	1382.5228
$\frac{7}{32}$	1.56842	1370.3493	1.56939	1376.5259	1.57037	1382.7165
$\frac{1}{4}$	1.56845	1370.5421	1.56942	1376.7192	1.57040	1382.9102
$\frac{9}{32}$	1.56848	1370.7349	1.56945	1376.9124	1.57043	1383.1038
$\frac{5}{16}$	1.56851	1370.9278	1.56948	1377.1057	1.57046	1383.2976
$\frac{11}{32}$	1.56854	1371.1206	1.56951	1377.2990	1.57049	1383.4913
$\frac{3}{8}$	1.56857	1371.3135	1.56954	1377.4923	1.57052	1383.6850
$\frac{13}{32}$	1.56860	1371.5064	1.56958	1377.6856	1.57055	1383.8788
$\frac{7}{16}$	1.56863	1371.6992	1.56961	1377.8789	1.57058	1384.0725
$\frac{15}{32}$	1.56866	1371.8922	1.56964	1378.0723	1.57061	1384.2663
$\frac{1}{2}$	1.56869	1372.0851	1.56967	1378.2656	1.57064	1384.4601
$\frac{17}{32}$	1.56872	1372.2780	1.56970	1378.4590	1.57067	1384.6539
$\frac{9}{16}$	1.56875	1372.4709	1.56973	1378.6524	1.57070	1384.8477
$\frac{19}{32}$	1.56878	1372.6639	1.56976	1378.8458	1.57073	1385.0415
$\frac{5}{8}$	1.56881	1372.8569	1.56979	1379.0392	1.57076	1385.2354
$\frac{21}{32}$	1.56884	1373.0499	1.56982	1379.2326	1.57079	1385.4292
$\frac{11}{16}$	1.56887	1373.2429	1.56985	1379.4260	1.57082	1385.6231
$\frac{23}{32}$	1.56890	1373.4359	1.56988	1379.6195	1.57085	1385.8170
$\frac{3}{4}$	1.56893	1373.6289	1.56991	1379.8129	1.57088	1386.0109
$\frac{25}{32}$	1.56897	1373.8219	1.56994	1380.0064	1.57091	1386.2048
$\frac{13}{16}$	1.56900	1374.0150	1.56997	1380.1999	1.57094	1386.3987
$\frac{27}{32}$	1.56903	1374.2081	1.57000	1380.3934	1.57097	1386.5926
$\frac{7}{8}$	1.56906	1374.4011	1.57003	1380.5869	1.57100	1386.7866
$\frac{29}{32}$	1.56909	1374.5942	1.57006	1380.7804	1.57104	1386.9805
$\frac{15}{16}$	1.56912	1374.7874	1.57009	1380.9740	1.57107	1387.1745
$\frac{31}{32}$	1.56915	1374.9805	1.57012	1381.1675	1.57110	1387.3685
1	1.56918	1375.1736	1.57015	1381.3611	1.57113	1387.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.57113	1387.5625	1.57210	1393.7778	1.57307	1400.0069
$\frac{1}{32}$	1.57116	1387.7565	1.57213	1393.9722	1.57310	1400.2018
$\frac{1}{16}$	1.57119	1387.9505	1.57216	1394.1667	1.57313	1400.3967
$\frac{3}{32}$	1.57122	1388.1446	1.57219	1394.3612	1.57316	1400.5916
$\frac{1}{8}$	1.57125	1388.3387	1.57222	1394.5557	1.57319	1400.7866
$\frac{5}{32}$	1.57128	1388.5327	1.57225	1394.7502	1.57322	1400.9815
$\frac{3}{16}$	1.57131	1388.7268	1.57228	1394.9447	1.57325	1401.1765
$\frac{7}{32}$	1.57134	1388.9209	1.57231	1395.1392	1.57328	1401.3714
$\frac{1}{4}$	1.57137	1389.1150	1.57234	1395.3338	1.57331	1401.5664
$\frac{9}{32}$	1.57140	1389.3091	1.57237	1395.5283	1.57334	1401.7614
$\frac{5}{16}$	1.57143	1389.5033	1.57240	1395.7229	1.57337	1401.9564
$\frac{11}{32}$	1.57146	1389.6974	1.57243	1395.9175	1.57340	1402.1514
$\frac{3}{8}$	1.57149	1389.8916	1.57246	1396.1121	1.57343	1402.3465
$\frac{13}{32}$	1.57152	1390.0858	1.57249	1396.3067	1.57346	1402.5415
$\frac{7}{16}$	1.57155	1390.2800	1.57252	1396.5013	1.57349	1402.7366
$\frac{15}{32}$	1.57158	1390.4742	1.57255	1396.6960	1.57352	1402.9316
$\frac{1}{2}$	1.57161	1390.6684	1.57258	1396.8906	1.57355	1403.1267
$\frac{17}{32}$	1.57164	1390.8626	1.57261	1397.0853	1.57358	1403.3218
$\frac{9}{16}$	1.57167	1391.0569	1.57264	1397.2800	1.57361	1403.5170
$\frac{19}{32}$	1.57170	1391.2511	1.57267	1397.4747	1.57364	1403.7121
$\frac{5}{8}$	1.57173	1391.4454	1.57270	1397.6694	1.57367	1403.9072
$\frac{21}{32}$	1.57176	1391.6397	1.57273	1397.8641	1.57370	1404.1024
$\frac{11}{16}$	1.57179	1391.8340	1.57276	1398.0588	1.57373	1404.2976
$\frac{23}{32}$	1.57182	1392.0283	1.57279	1398.2536	1.57376	1404.4927
$\frac{3}{4}$	1.57185	1392.2227	1.57282	1398.4484	1.57379	1404.6879
$\frac{25}{32}$	1.57188	1392.4170	1.57285	1398.6431	1.57382	1404.8831
$\frac{13}{16}$	1.57191	1392.6114	1.57288	1398.8379	1.57385	1405.0784
$\frac{27}{32}$	1.57195	1392.8057	1.57291	1399.0327	1.57388	1405.2736
$\frac{7}{8}$	1.57198	1393.0001	1.57294	1399.2275	1.57391	1405.4689
$\frac{29}{32}$	1.57201	1393.1945	1.57297	1399.4224	1.57394	1405.6641
$\frac{15}{16}$	1.57204	1393.3889	1.57300	1399.6172	1.57397	1405.8594
$\frac{31}{32}$	1.57207	1393.5833	1.57303	1399.8121	1.57400	1406.0547
1	1.57210	1393.7778	1.57307	1400.0069	1.57403	1406.2500

37'

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.57403	1406.2500	1.57500	1412.5069	1.57596	1418.7778
$\frac{1}{32}$	1.57406	1406.4453	1.57503	1412.7027	1.57599	1418.9740
$\frac{1}{16}$	1.57409	1406.6407	1.57506	1412.8985	1.57602	1419.1702
$\frac{3}{32}$	1.57412	1406.8360	1.57509	1413.0942	1.57605	1419.3664
$\frac{1}{8}$	1.57415	1407.0314	1.57512	1413.2900	1.57608	1419.5626
$\frac{5}{32}$	1.57418	1407.2267	1.57515	1413.4858	1.57611	1419.7589
$\frac{3}{16}$	1.57421	1407.4221	1.57518	1413.6817	1.57614	1419.9551
$\frac{7}{32}$	1.57424	1407.6175	1.57521	1413.8775	1.57617	1420.1514
$\frac{1}{4}$	1.57427	1407.8129	1.57524	1414.0734	1.57620	1420.3477
$\frac{9}{32}$	1.57430	1408.0084	1.57527	1414.2692	1.57623	1420.5440
$\frac{5}{16}$	1.57433	1408.2038	1.57530	1414.4651	1.57626	1420.7403
$\frac{11}{32}$	1.57436	1408.3993	1.57533	1414.6610	1.57629	1420.9366
$\frac{3}{8}$	1.57439	1408.5947	1.57536	1414.8569	1.57632	1421.1329
$\frac{13}{32}$	1.57442	1408.7902	1.57539	1415.0528	1.57635	1421.3293
$\frac{7}{16}$	1.57445	1408.9857	1.57542	1415.2487	1.57638	1421.5256
$\frac{15}{32}$	1.57448	1409.1812	1.57545	1415.4447	1.57641	1421.7220
$\frac{1}{2}$	1.57451	1409.3767	1.57548	1415.6406	1.57644	1421.9184
$\frac{17}{32}$	1.57454	1409.5723	1.57551	1415.8366	1.57647	1422.1148
$\frac{9}{16}$	1.57457	1409.7678	1.57554	1416.0326	1.57650	1422.3112
$\frac{19}{32}$	1.57460	1409.9634	1.57557	1416.2286	1.57653	1422.5077
$\frac{5}{8}$	1.57463	1410.1590	1.57560	1416.4246	1.57656	1422.7041
$\frac{21}{32}$	1.57466	1410.3546	1.57563	1416.6206	1.57659	1422.9006
$\frac{11}{16}$	1.57469	1410.5502	1.57566	1416.8167	1.57662	1423.0970
$\frac{23}{32}$	1.57472	1410.7458	1.57569	1417.0127	1.57665	1423.2935
$\frac{3}{4}$	1.57475	1410.9414	1.57572	1417.2088	1.57668	1423.4900
$\frac{25}{32}$	1.57478	1411.1371	1.57575	1417.4048	1.57671	1423.6865
$\frac{13}{16}$	1.57481	1411.3327	1.57578	1417.6009	1.57674	1423.8831
$\frac{27}{32}$	1.57484	1411.5284	1.57581	1417.7970	1.57677	1424.0796
$\frac{7}{8}$	1.57487	1411.7241	1.57584	1417.9932	1.57680	1424.2762
$\frac{29}{32}$	1.57491	1411.9198	1.57587	1418.1893	1.57683	1424.4727
$\frac{15}{16}$	1.57494	1412.1155	1.57590	1418.3854	1.57686	1424.6693
$\frac{31}{32}$	1.57497	1412.3112	1.57593	1418.5816	1.57689	1424.8659
1	1.57500	1412.5069	1.57596	1418.7778	1.57692	1425.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.57692	1425.0625	1.57787	1431.3611	1.57883	1437.6736
$\frac{1}{32}$	1.57695	1425.2591	1.57790	1431.5582	1.57886	1437.8711
$\frac{1}{16}$	1.57698	1425.4558	1.57793	1431.7552	1.57889	1438.0686
$\frac{3}{32}$	1.57701	1425.6524	1.57796	1431.9523	1.57892	1438.2661
$\frac{1}{8}$	1.57704	1425.8491	1.57799	1432.1494	1.57895	1438.4637
$\frac{5}{32}$	1.57707	1426.0457	1.57802	1432.3465	1.57898	1438.6612
$\frac{3}{16}$	1.57710	1426.2424	1.57805	1432.5436	1.57901	1438.8588
$\frac{7}{32}$	1.57713	1426.4391	1.57808	1432.7408	1.57904	1439.0563
$\frac{1}{4}$	1.57716	1426.6359	1.57811	1432.9379	1.57907	1439.2539
$\frac{9}{32}$	1.57719	1426.8326	1.57814	1433.1351	1.57910	1439.4515
$\frac{5}{16}$	1.57722	1427.0293	1.57817	1433.3323	1.57913	1439.6491
$\frac{11}{32}$	1.57725	1427.2261	1.57820	1433.5295	1.57916	1439.8467
$\frac{3}{8}$	1.57728	1427.4229	1.57823	1433.7267	1.57919	1440.0444
$\frac{13}{32}$	1.57731	1427.6196	1.57826	1433.9239	1.57922	1440.2420
$\frac{7}{16}$	1.57734	1427.8164	1.57829	1434.1211	1.57925	1440.4397
$\frac{15}{32}$	1.57737	1428.0132	1.57832	1434.3184	1.57928	1440.6374
$\frac{1}{2}$	1.57740	1428.2101	1.57835	1434.5156	1.57931	1440.8351
$\frac{17}{32}$	1.57743	1428.4069	1.57838	1434.7129	1.57934	1441.0328
$\frac{9}{16}$	1.57746	1428.6038	1.57841	1434.9102	1.57937	1441.2305
$\frac{19}{32}$	1.57749	1428.8006	1.57844	1435.1075	1.57940	1441.4282
$\frac{5}{8}$	1.57752	1428.9975	1.57847	1435.3048	1.57943	1441.6260
$\frac{21}{32}$	1.57755	1429.1944	1.57850	1435.5021	1.57946	1441.8237
$\frac{11}{16}$	1.57758	1429.3913	1.57853	1435.6995	1.57949	1442.0215
$\frac{23}{32}$	1.57761	1429.5882	1.57856	1435.8968	1.57952	1442.2193
$\frac{3}{4}$	1.57764	1429.7852	1.57859	1436.0942	1.57955	1442.4171
$\frac{25}{32}$	1.57767	1429.9821	1.57862	1436.2916	1.57958	1442.6149
$\frac{13}{16}$	1.57770	1430.1791	1.57865	1436.4890	1.57960	1442.8127
$\frac{27}{32}$	1.57773	1430.3760	1.57868	1436.6864	1.57963	1443.0106
$\frac{7}{8}$	1.57776	1430.5730	1.57871	1436.8838	1.57966	1443.2084
$\frac{29}{32}$	1.57778	1430.7700	1.57874	1437.0812	1.57969	1443.4063
$\frac{15}{16}$	1.57781	1430.9670	1.57877	1437.2787	1.57972	1443.6042
$\frac{31}{32}$	1.57784	1431.1641	1.57880	1437.4761	1.57975	1443.8021
1	1.57787	1431.3611	1.57883	1437.6736	1.57978	1444.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.57978	1444.0000	1.58073	1450.3403	1.58168	1456.6944
$\frac{1}{8}$	1.57981	1444.1979	1.58076	1450.5386	1.58171	1456.8932
$\frac{1}{16}$	1.57984	1444.3959	1.58079	1450.7370	1.58174	1457.0920
$\frac{3}{32}$	1.57987	1444.5938	1.58082	1450.9354	1.58177	1457.2909
$\frac{1}{8}$	1.57990	1444.7918	1.58085	1451.1338	1.58180	1457.4897
$\frac{5}{32}$	1.57993	1444.9898	1.58088	1451.3322	1.58183	1457.6885
$\frac{3}{16}$	1.57996	1445.1877	1.58091	1451.5306	1.58186	1457.8874
$\frac{7}{32}$	1.57999	1445.3857	1.58094	1451.7291	1.58189	1458.0863
$\frac{1}{4}$	1.58002	1445.5838	1.58097	1451.9275	1.58192	1458.2852
$\frac{9}{32}$	1.58005	1445.7818	1.58100	1452.1260	1.58195	1458.4841
$\frac{5}{16}$	1.58008	1445.9798	1.58103	1452.3245	1.58198	1458.6830
$\frac{11}{32}$	1.58011	1446.1779	1.58106	1452.5230	1.58201	1458.8819
$\frac{3}{8}$	1.58014	1446.3760	1.58109	1452.7215	1.58204	1459.0808
$\frac{13}{32}$	1.58017	1446.5741	1.58112	1452.9200	1.58207	1459.2798
$\frac{7}{16}$	1.58020	1446.7722	1.58115	1453.1185	1.58210	1459.4788
$\frac{15}{32}$	1.58023	1446.9703	1.58118	1453.3171	1.58213	1459.6777
$\frac{1}{2}$	1.58026	1447.1684	1.58121	1453.5156	1.58216	1459.8767
$\frac{17}{32}$	1.58029	1447.3665	1.58124	1453.7142	1.58219	1460.0757
$\frac{9}{16}$	1.58032	1447.5647	1.58127	1453.9128	1.58222	1460.2748
$\frac{19}{32}$	1.58035	1447.7629	1.58130	1454.1114	1.58225	1460.4738
$\frac{5}{8}$	1.58038	1447.9610	1.58133	1454.3100	1.58228	1460.6729
$\frac{21}{32}$	1.58041	1448.1592	1.58136	1454.5086	1.58231	1460.8719
$\frac{11}{16}$	1.58044	1448.3574	1.58139	1454.7073	1.58234	1461.0710
$\frac{23}{32}$	1.58047	1448.5557	1.58142	1454.9059	1.58237	1461.2701
$\frac{3}{4}$	1.58050	1448.7539	1.58145	1455.1046	1.58239	1461.4692
$\frac{25}{32}$	1.58053	1448.9522	1.58148	1455.3033	1.58242	1461.6683
$\frac{13}{16}$	1.58056	1449.1504	1.58151	1455.5020	1.58245	1461.8674
$\frac{27}{32}$	1.58059	1449.3487	1.58154	1455.7007	1.58248	1462.0666
$\frac{7}{8}$	1.58062	1449.5470	1.58157	1455.8994	1.58251	1462.2657
$\frac{29}{32}$	1.58065	1449.7453	1.58160	1456.0982	1.58254	1462.4649
$\frac{15}{16}$	1.58068	1449.9436	1.58162	1456.2969	1.58257	1462.6641
$\frac{31}{32}$	1.58071	1450.1419	1.58165	1456.4957	1.58260	1462.8633
1	1.58073	1450.3403	1.58168	1456.6944	1.58263	1463.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.58263	1463.0625	1.58358	1469.4444	1.58452	1475.8403
$\frac{1}{32}$	1.58266	1463.2617	1.58361	1469.6441	1.58455	1476.0404
$\frac{1}{16}$	1.58269	1463.4610	1.58364	1469.8438	1.58458	1476.2405
$\frac{3}{32}$	1.58272	1463.6602	1.58367	1470.0435	1.58461	1476.4406
$\frac{1}{8}$	1.58275	1463.8595	1.58369	1470.2432	1.58464	1476.6407
$\frac{5}{32}$	1.58278	1464.0588	1.58372	1470.4429	1.58467	1476.8409
$\frac{3}{16}$	1.58281	1464.2581	1.58375	1470.6426	1.58470	1477.0410
$\frac{7}{32}$	1.58284	1464.4574	1.58378	1470.8423	1.58473	1477.2412
$\frac{1}{4}$	1.58287	1464.6567	1.58381	1471.0421	1.58476	1477.4414
$\frac{9}{32}$	1.58290	1464.8560	1.58384	1471.2419	1.58478	1477.6416
$\frac{5}{16}$	1.58293	1465.0554	1.58387	1471.4417	1.58481	1477.8418
$\frac{11}{32}$	1.58296	1465.2547	1.58390	1471.6414	1.58484	1478.0421
$\frac{3}{8}$	1.58299	1465.4541	1.58393	1471.8413	1.58487	1478.2423
$\frac{13}{32}$	1.58302	1465.6535	1.58396	1472.0411	1.58490	1478.4426
$\frac{7}{16}$	1.58305	1465.8529	1.58399	1472.2409	1.58493	1478.6428
$\frac{15}{32}$	1.58307	1466.0523	1.58402	1472.4408	1.58496	1478.8431
$\frac{1}{2}$	1.58310	1466.2517	1.58405	1472.6406	1.58499	1479.0434
$\frac{17}{32}$	1.58313	1466.4512	1.58408	1472.8405	1.58502	1479.2437
$\frac{9}{16}$	1.58316	1466.6506	1.58411	1473.0404	1.58505	1479.4440
$\frac{19}{32}$	1.58319	1466.8501	1.58414	1473.2403	1.58508	1479.6444
$\frac{5}{8}$	1.58322	1467.0496	1.58417	1473.4402	1.58511	1479.8447
$\frac{21}{32}$	1.58325	1467.2491	1.58420	1473.6401	1.58514	1480.0451
$\frac{11}{16}$	1.58328	1467.4486	1.58423	1473.8401	1.58517	1480.2455
$\frac{23}{32}$	1.58331	1467.6481	1.58425	1474.0400	1.58520	1480.4459
$\frac{3}{4}$	1.58334	1467.8477	1.58428	1474.2400	1.58523	1480.6463
$\frac{25}{32}$	1.58337	1468.0472	1.58431	1474.4400	1.58526	1480.8467
$\frac{13}{16}$	1.58340	1468.2468	1.58434	1474.6400	1.58528	1481.0471
$\frac{27}{32}$	1.58343	1468.4464	1.58437	1474.8400	1.58531	1481.2476
$\frac{7}{8}$	1.58346	1468.6459	1.58440	1475.0400	1.58534	1481.4480
$\frac{29}{32}$	1.58349	1468.8455	1.58443	1475.2401	1.58537	1481.6485
$\frac{15}{16}$	1.58352	1469.0452	1.58446	1475.4401	1.58540	1481.8490
$\frac{31}{32}$	1.58355	1469.2448	1.58449	1475.6402	1.58543	1482.0495
1	1.58358	1469.4444	1.58452	1475.8403	1.58546	1482.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.58546	1482.2500	1.58640	1488.6736	1.58734	1495.1111
$\frac{1}{32}$	1.58549	1482.4505	1.58643	1488.8746	1.58737	1495.3125
$\frac{1}{16}$	1.58552	1482.6511	1.58646	1489.0755	1.58740	1495.5139
$\frac{3}{32}$	1.58555	1482.8516	1.58649	1489.2765	1.58742	1495.7153
$\frac{1}{8}$	1.58558	1483.0522	1.58652	1489.4775	1.58745	1495.9168
$\frac{5}{32}$	1.58561	1483.2528	1.58655	1489.6786	1.58748	1496.1182
$\frac{3}{16}$	1.58564	1483.4534	1.58658	1489.8796	1.58751	1496.3197
$\frac{7}{32}$	1.58567	1483.6540	1.58660	1490.0806	1.58754	1496.5212
$\frac{1}{4}$	1.58570	1483.8546	1.58663	1490.2817	1.58757	1496.7227
$\frac{9}{32}$	1.58573	1484.0552	1.58666	1490.4828	1.58760	1496.9242
$\frac{5}{16}$	1.58575	1484.2559	1.58669	1490.6838	1.58763	1497.1257
$\frac{11}{32}$	1.58578	1484.4565	1.58672	1490.8849	1.58766	1497.3272
$\frac{3}{8}$	1.58581	1484.6572	1.58675	1491.0860	1.58769	1497.5288
$\frac{13}{32}$	1.58584	1484.8579	1.58678	1491.2872	1.58772	1497.7303
$\frac{7}{16}$	1.58587	1485.0586	1.58681	1491.4883	1.58775	1497.9319
$\frac{15}{32}$	1.58590	1485.2593	1.58684	1491.6895	1.58778	1498.1335
$\frac{1}{2}$	1.58593	1485.4601	1.58687	1491.8906	1.58780	1498.3351
$\frac{17}{32}$	1.58596	1485.6608	1.58690	1492.0918	1.58783	1498.5367
$\frac{9}{16}$	1.58599	1485.8616	1.58693	1492.2930	1.58786	1498.7383
$\frac{19}{32}$	1.58602	1486.0623	1.58696	1492.4942	1.58789	1498.9399
$\frac{5}{8}$	1.58605	1486.2631	1.58699	1492.6954	1.58792	1499.1416
$\frac{21}{32}$	1.58608	1486.4639	1.58701	1492.8967	1.58795	1499.3433
$\frac{11}{16}$	1.58611	1486.6647	1.58704	1493.0979	1.58798	1499.5449
$\frac{23}{32}$	1.58614	1486.8656	1.58707	1493.2992	1.58801	1499.7466
$\frac{3}{4}$	1.58617	1487.0664	1.58710	1493.5004	1.58804	1499.9484
$\frac{25}{32}$	1.58619	1487.2673	1.58713	1493.7017	1.58807	1500.1501
$\frac{13}{16}$	1.58622	1487.4681	1.58716	1493.9030	1.58810	1500.3518
$\frac{27}{32}$	1.58625	1487.6690	1.58719	1494.1043	1.58813	1500.5536
$\frac{7}{8}$	1.58628	1487.8699	1.58722	1494.3057	1.58815	1500.7553
$\frac{29}{32}$	1.58631	1488.0708	1.58725	1494.5070	1.58818	1500.9571
$\frac{15}{16}$	1.58634	1488.2717	1.58728	1494.7084	1.58821	1501.1589
$\frac{31}{32}$	1.58637	1488.4727	1.58731	1494.9097	1.58824	1501.3607
1	1.58640	1488.6736	1.58734	1495.1111	1.58827	1501.5625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.58827	1501.5625	1.58920	1508.0278	1.59014	1514.5069
$\frac{1}{32}$	1.58830	1501.7643	1.58923	1508.2300	1.59016	1514.7096
$\frac{1}{16}$	1.58833	1501.9662	1.58926	1508.4323	1.59019	1514.9124
$\frac{3}{32}$	1.58836	1502.1680	1.58929	1508.6346	1.59022	1515.1151
$\frac{1}{8}$	1.58839	1502.3699	1.58932	1508.8369	1.59025	1515.3178
$\frac{5}{32}$	1.58842	1502.5718	1.58935	1509.0392	1.59028	1515.5206
$\frac{3}{16}$	1.58845	1502.7737	1.58938	1509.2416	1.59031	1515.7233
$\frac{7}{32}$	1.58848	1502.9756	1.58941	1509.4439	1.59034	1515.9261
$\frac{1}{4}$	1.58851	1503.1775	1.58944	1509.6463	1.59037	1516.1289
$\frac{9}{32}$	1.58853	1503.3795	1.58947	1509.8486	1.59040	1516.3317
$\frac{5}{16}$	1.58856	1503.5814	1.58950	1510.0510	1.59043	1516.5345
$\frac{11}{32}$	1.58859	1503.7834	1.58952	1510.2534	1.59046	1516.7374
$\frac{3}{8}$	1.58862	1503.9854	1.58955	1510.4558	1.59048	1516.9402
$\frac{13}{32}$	1.58865	1504.1873	1.58958	1510.6583	1.59051	1517.1431
$\frac{7}{16}$	1.58868	1504.3893	1.58961	1510.8607	1.59054	1517.3459
$\frac{15}{32}$	1.58871	1504.5914	1.58964	1511.0632	1.59057	1517.5488
$\frac{1}{2}$	1.58874	1504.7934	1.58967	1511.2656	1.59060	1517.7517
$\frac{17}{32}$	1.58877	1504.9954	1.58970	1511.4681	1.59063	1517.9547
$\frac{9}{16}$	1.58880	1505.1975	1.58973	1511.6706	1.59066	1518.1576
$\frac{19}{32}$	1.58883	1505.3996	1.58976	1511.8731	1.59069	1518.3605
$\frac{5}{8}$	1.58886	1505.6017	1.58979	1512.0756	1.59072	1518.5635
$\frac{21}{32}$	1.58888	1505.8038	1.58982	1512.2782	1.59075	1518.7664
$\frac{11}{16}$	1.58891	1506.0059	1.58984	1512.4807	1.59077	1518.9694
$\frac{23}{32}$	1.58894	1506.2080	1.58987	1512.6833	1.59080	1519.1724
$\frac{3}{4}$	1.58897	1506.4102	1.58990	1512.8859	1.59083	1519.3754
$\frac{25}{32}$	1.58900	1506.6123	1.58993	1513.0884	1.59086	1519.5785
$\frac{13}{16}$	1.58903	1506.8145	1.58996	1513.2910	1.59089	1519.7815
$\frac{27}{32}$	1.58906	1507.0167	1.58999	1513.4937	1.59092	1519.9845
$\frac{7}{8}$	1.58909	1507.2189	1.59002	1513.6963	1.59095	1520.1876
$\frac{29}{32}$	1.58912	1507.4211	1.59005	1513.8989	1.59098	1520.3907
$\frac{15}{16}$	1.58915	1507.6233	1.59008	1514.1016	1.59101	1520.5938
$\frac{31}{32}$	1.58918	1507.8255	1.59011	1514.3043	1.59104	1520.7969
1	1.58920	1508.0278	1.59014	1514.5069	1.59106	1521.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.59106	1521.0000	1.59199	1527.5069	1.59292	1534.0278
$\frac{1}{8}$	1.59109	1521.2031	1.59202	1527.7105	1.59295	1534.2318
$\frac{1}{16}$	1.59112	1521.4063	1.59205	1527.9141	1.59297	1534.4358
$\frac{3}{8}$	1.59115	1521.6094	1.59208	1528.1177	1.59300	1534.6398
$\frac{1}{8}$	1.59118	1521.8126	1.59211	1528.3213	1.59303	1534.8439
$\frac{5}{8}$	1.59121	1522.0158	1.59214	1528.5249	1.59306	1535.0479
$\frac{3}{16}$	1.59124	1522.2190	1.59217	1528.7285	1.59309	1535.2520
$\frac{7}{8}$	1.59127	1522.4222	1.59219	1528.9322	1.59312	1535.4561
$\frac{1}{4}$	1.59130	1522.6254	1.59222	1529.1359	1.59315	1535.6602
$\frac{9}{8}$	1.59133	1522.8287	1.59225	1529.3395	1.59318	1535.8643
$\frac{5}{16}$	1.59135	1523.0319	1.59228	1529.5432	1.59321	1536.0684
$\frac{11}{8}$	1.59138	1523.2352	1.59231	1529.7469	1.59323	1536.2725
$\frac{3}{8}$	1.59141	1523.4385	1.59234	1529.9506	1.59326	1536.4767
$\frac{13}{8}$	1.59144	1523.6418	1.59237	1530.1544	1.59329	1536.6808
$\frac{7}{16}$	1.59147	1523.8451	1.59240	1530.3581	1.59332	1536.8850
$\frac{15}{8}$	1.59150	1524.0484	1.59243	1530.5619	1.59335	1537.0892
$\frac{1}{2}$	1.59153	1524.2517	1.59245	1530.7656	1.59338	1537.2934
$\frac{17}{8}$	1.59156	1524.4551	1.59248	1530.9694	1.59341	1537.4976
$\frac{9}{16}$	1.59159	1524.6584	1.59251	1531.1732	1.59344	1537.7019
$\frac{19}{8}$	1.59162	1524.8618	1.59254	1531.3770	1.59346	1537.9061
$\frac{5}{8}$	1.59164	1525.0652	1.59257	1531.5808	1.59349	1538.1104
$\frac{21}{8}$	1.59167	1525.2686	1.59260	1531.7847	1.59352	1538.3146
$\frac{11}{16}$	1.59170	1525.4720	1.59263	1531.9885	1.59355	1538.5189
$\frac{23}{8}$	1.59173	1525.6755	1.59266	1532.1924	1.59358	1538.7232
$\frac{3}{4}$	1.59176	1525.8789	1.59269	1532.3963	1.59361	1538.9275
$\frac{25}{8}$	1.59179	1526.0824	1.59271	1532.6002	1.59364	1539.1318
$\frac{13}{16}$	1.59182	1526.2858	1.59274	1532.8041	1.59367	1539.3362
$\frac{27}{8}$	1.59185	1526.4893	1.59277	1533.0080	1.59370	1539.5405
$\frac{7}{8}$	1.59188	1526.6928	1.59280	1533.2119	1.59372	1539.7449
$\frac{29}{8}$	1.59190	1526.8963	1.59283	1533.4159	1.59375	1539.9493
$\frac{15}{16}$	1.59193	1527.0999	1.59286	1533.6198	1.59378	1540.1537
$\frac{31}{8}$	1.59196	1527.3034	1.59289	1533.8238	1.59381	1540.3581
1	1.59199	1527.5069	1.59292	1534.0278	1.59384	1540.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.59384	1540.5625	1.59476	1547.1111	1.59568	1553.6736
$\frac{1}{32}$	1.59387	1540.7669	1.59479	1547.3160	1.59571	1553.8789
$\frac{1}{16}$	1.59390	1540.9714	1.59482	1547.5209	1.59574	1554.0842
$\frac{3}{32}$	1.59393	1541.1758	1.59485	1547.7258	1.59577	1554.2896
$\frac{1}{8}$	1.59395	1541.3803	1.59488	1547.9307	1.59579	1554.4949
$\frac{5}{32}$	1.59398	1541.5848	1.59490	1548.1356	1.59582	1554.7003
$\frac{3}{16}$	1.59401	1541.7893	1.59493	1548.3405	1.59585	1554.9056
$\frac{7}{32}$	1.59404	1541.9938	1.59496	1548.5455	1.59588	1555.1110
$\frac{1}{4}$	1.59407	1542.1984	1.59499	1548.7504	1.59591	1555.3164
$\frac{9}{32}$	1.59410	1542.4029	1.59502	1548.9554	1.59594	1555.5218
$\frac{5}{16}$	1.59413	1542.6074	1.59505	1549.1604	1.59597	1555.7272
$\frac{11}{32}$	1.59416	1542.8120	1.59508	1549.3654	1.59600	1555.9327
$\frac{3}{8}$	1.59419	1543.0166	1.59511	1549.5704	1.59602	1556.1381
$\frac{13}{32}$	1.59421	1543.2212	1.59513	1549.7755	1.59605	1556.3436
$\frac{7}{16}$	1.59424	1543.4258	1.59516	1549.9805	1.59608	1556.5491
$\frac{15}{32}$	1.59427	1543.6304	1.59519	1550.1856	1.59611	1556.7546
$\frac{1}{2}$	1.59430	1543.8351	1.59522	1550.3906	1.59614	1556.9601
$\frac{17}{32}$	1.59433	1544.0397	1.59525	1550.5957	1.59617	1557.1656
$\frac{9}{16}$	1.59436	1544.2444	1.59528	1550.8008	1.59620	1557.3711
$\frac{19}{32}$	1.59439	1544.4491	1.59531	1551.0059	1.59622	1557.5767
$\frac{5}{8}$	1.59442	1544.6538	1.59534	1551.2110	1.59625	1557.7822
$\frac{21}{32}$	1.59444	1544.8585	1.59536	1551.4162	1.59628	1557.9878
$\frac{11}{16}$	1.59447	1545.0632	1.59539	1551.6213	1.59631	1558.1934
$\frac{23}{32}$	1.59450	1545.2679	1.59542	1551.8265	1.59634	1558.3990
$\frac{3}{4}$	1.59453	1545.4727	1.59545	1552.0317	1.59637	1558.6046
$\frac{25}{32}$	1.59456	1545.6774	1.59548	1552.2369	1.59640	1558.8102
$\frac{13}{16}$	1.59459	1545.8822	1.59551	1552.4421	1.59643	1559.0159
$\frac{27}{32}$	1.59462	1546.0870	1.59554	1552.6473	1.59645	1559.2215
$\frac{7}{8}$	1.59465	1546.2918	1.59557	1552.8525	1.59648	1559.4272
$\frac{29}{32}$	1.59467	1546.4966	1.59559	1553.0578	1.59651	1559.6329
$\frac{15}{16}$	1.59470	1546.7014	1.59562	1553.2630	1.59654	1559.8386
$\frac{31}{32}$	1.59473	1546.9063	1.59565	1553.4683	1.59657	1560.0443
1	1.59476	1547.1111	1.59568	1553.6736	1.59660	1560.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.59660	1560.2500	1.59751	1566.8403	1.59843	1573.4444
$\frac{1}{32}$	1.59663	1560.4557	1.59754	1567.0464	1.59845	1573.6510
$\frac{1}{16}$	1.59665	1560.6615	1.59757	1567.2526	1.59848	1573.8577
$\frac{3}{32}$	1.59668	1560.8672	1.59760	1567.4588	1.59851	1574.0643
$\frac{1}{8}$	1.59671	1561.0730	1.59763	1567.6650	1.59854	1574.2709
$\frac{5}{32}$	1.59674	1561.2788	1.59766	1567.8713	1.59857	1574.4776
$\frac{3}{16}$	1.59677	1561.4846	1.59768	1568.0775	1.59860	1574.6843
$\frac{7}{32}$	1.59680	1561.6904	1.59771	1568.2838	1.59863	1574.8910
$\frac{1}{4}$	1.59683	1561.8963	1.59774	1568.4900	1.59865	1575.0977
$\frac{9}{32}$	1.59685	1562.1021	1.59777	1568.6963	1.59868	1575.3044
$\frac{5}{16}$	1.59688	1562.3080	1.59780	1568.9026	1.59871	1575.5111
$\frac{11}{32}$	1.59691	1562.5138	1.59783	1569.1089	1.59874	1575.7178
$\frac{3}{8}$	1.59694	1562.7197	1.59786	1569.3152	1.59877	1575.9246
$\frac{13}{32}$	1.59697	1562.9256	1.59788	1569.5215	1.59880	1576.1314
$\frac{7}{16}$	1.59700	1563.1315	1.59791	1569.7279	1.59882	1576.3381
$\frac{15}{32}$	1.59703	1563.3375	1.59794	1569.9343	1.59885	1576.5449
$\frac{1}{2}$	1.59705	1563.5434	1.59797	1570.1406	1.59888	1576.7517
$\frac{17}{32}$	1.59708	1563.7494	1.59800	1570.3470	1.59891	1576.9586
$\frac{9}{16}$	1.59711	1563.9553	1.59803	1570.5534	1.59894	1577.1654
$\frac{19}{32}$	1.59714	1564.1613	1.59805	1570.7598	1.59897	1577.3722
$\frac{5}{8}$	1.59717	1564.3673	1.59808	1570.9663	1.59900	1577.5791
$\frac{21}{32}$	1.59720	1564.5733	1.59811	1571.1727	1.59902	1577.7860
$\frac{11}{16}$	1.59723	1564.7793	1.59814	1571.3792	1.59905	1577.9929
$\frac{23}{32}$	1.59726	1564.9854	1.59817	1571.5856	1.59908	1578.1998
$\frac{3}{4}$	1.59728	1565.1914	1.59820	1571.7921	1.59911	1578.4067
$\frac{25}{32}$	1.59731	1565.3975	1.59823	1571.9986	1.59914	1578.6136
$\frac{13}{16}$	1.59734	1565.6035	1.59825	1572.2051	1.59917	1578.8206
$\frac{27}{32}$	1.59737	1565.8096	1.59828	1572.4116	1.59919	1579.0275
$\frac{7}{8}$	1.59740	1566.0157	1.59831	1572.6182	1.59922	1579.2345
$\frac{29}{32}$	1.59743	1566.2218	1.59834	1572.8247	1.59925	1579.4415
$\frac{15}{16}$	1.59746	1566.4280	1.59837	1573.0313	1.59928	1579.6485
$\frac{31}{32}$	1.59748	1566.6341	1.59840	1573.2379	1.59931	1579.8555
1	1.59751	1566.8403	1.59843	1573.4444	1.59934	1580.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.59934	1580.0625	1.60025	1586.6944	1.60115	1593.3403
1/32	1.59937	1580.2695	1.60028	1586.9019	1.60118	1593.5482
1/16	1.59939	1580.4766	1.60030	1587.1094	1.60121	1593.7561
3/32	1.59942	1580.6837	1.60033	1587.3169	1.60124	1593.9640
1/8	1.59945	1580.8907	1.60036	1587.5244	1.60127	1594.1720
5/32	1.59948	1581.0978	1.60039	1587.7319	1.60130	1594.3799
3/16	1.59951	1581.3049	1.60042	1587.9395	1.60132	1594.5879
7/32	1.59954	1581.5121	1.60045	1588.1470	1.60135	1594.7959
1/4	1.59956	1581.7192	1.60047	1588.3546	1.60138	1595.0039
9/32	1.59959	1581.9263	1.60050	1588.5622	1.60141	1595.2119
5/16	1.59962	1582.1335	1.60053	1588.7698	1.60144	1595.4199
11/32	1.59965	1582.3407	1.60056	1588.9774	1.60147	1595.6280
3/8	1.59968	1582.5479	1.60059	1589.1850	1.60149	1595.8360
13/32	1.59971	1582.7551	1.60062	1589.3926	1.60152	1596.0441
7/16	1.59974	1582.9623	1.60064	1589.6003	1.60155	1596.2522
15/32	1.59976	1583.1695	1.60067	1589.8079	1.60158	1596.4603
1/2	1.59979	1583.3767	1.60070	1590.0156	1.60161	1596.6684
17/32	1.59982	1583.5840	1.60073	1590.2233	1.60164	1596.8765
9/16	1.59985	1583.7913	1.60076	1590.4310	1.60166	1597.0847
19/32	1.59988	1583.9985	1.60079	1590.6387	1.60169	1597.2928
5/8	1.59991	1584.2058	1.60081	1590.8465	1.60172	1597.5010
21/32	1.59993	1584.4131	1.60084	1591.0542	1.60175	1597.7092
11/16	1.59996	1584.6205	1.60087	1591.2620	1.60178	1597.9173
23/32	1.59999	1584.8278	1.60090	1591.4697	1.60181	1598.1255
3/4	1.60002	1585.0352	1.60093	1591.6775	1.60183	1598.3338
25/32	1.60005	1585.2425	1.60096	1591.8853	1.60186	1598.5420
13/16	1.60008	1585.4499	1.60098	1592.0931	1.60189	1598.7502
27/32	1.60010	1585.6573	1.60101	1592.3010	1.60192	1598.9585
7/8	1.60013	1585.8647	1.60104	1592.5088	1.60195	1599.1668
29/32	1.60016	1586.0721	1.60107	1592.7166	1.60198	1599.3751
15/16	1.60019	1586.2795	1.60110	1592.9245	1.60200	1599.5834
31/32	1.60022	1586.4870	1.60113	1593.1324	1.60203	1599.7917
1	1.60025	1586.6944	1.60115	1593.3403	1.60206	1600.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.60206	1600.0000	1.60296	1606.6736	1.60387	1613.3611
$\frac{1}{32}$	1.60209	1600.2083	1.60299	1606.8824	1.60389	1613.5703
$\frac{1}{16}$	1.60212	1600.4167	1.60302	1607.0912	1.60392	1613.7795
$\frac{3}{32}$	1.60214	1600.6251	1.60305	1607.3000	1.60395	1613.9888
$\frac{1}{8}$	1.60217	1600.8334	1.60308	1607.5088	1.60398	1614.1980
$\frac{5}{32}$	1.60220	1601.0418	1.60310	1607.7176	1.60401	1614.4073
$\frac{3}{16}$	1.60223	1601.2502	1.60313	1607.9265	1.60403	1614.6166
$\frac{7}{32}$	1.60226	1601.4587	1.60316	1608.1353	1.60406	1614.8259
$\frac{1}{4}$	1.60229	1601.6671	1.60319	1608.3442	1.60409	1615.0352
$\frac{9}{32}$	1.60231	1601.8755	1.60322	1608.5531	1.60412	1615.2445
$\frac{5}{16}$	1.60234	1602.0840	1.60325	1608.7620	1.60415	1615.4538
$\frac{11}{32}$	1.60237	1602.2925	1.60327	1608.9709	1.60418	1615.6631
$\frac{3}{8}$	1.60240	1602.5010	1.60330	1609.1798	1.60420	1615.8725
$\frac{13}{32}$	1.60243	1602.7095	1.60333	1609.3887	1.60423	1616.0819
$\frac{7}{16}$	1.60246	1602.9180	1.60336	1609.5977	1.60426	1616.2913
$\frac{15}{32}$	1.60248	1603.1265	1.60339	1609.8066	1.60429	1616.5007
$\frac{1}{2}$	1.60251	1603.3351	1.60342	1610.0156	1.60432	1616.7101
$\frac{17}{32}$	1.60254	1603.5436	1.60344	1610.2246	1.60434	1616.9195
$\frac{9}{16}$	1.60257	1603.7522	1.60347	1610.4336	1.60437	1617.1289
$\frac{19}{32}$	1.60260	1603.9608	1.60350	1610.6426	1.60440	1617.3384
$\frac{5}{8}$	1.60263	1604.1694	1.60353	1610.8517	1.60443	1617.5479
$\frac{21}{32}$	1.60265	1604.3780	1.60356	1611.0607	1.60446	1617.7573
$\frac{11}{16}$	1.60268	1604.5866	1.60358	1611.2698	1.60448	1617.9668
$\frac{23}{32}$	1.60271	1604.7953	1.60361	1611.4788	1.60451	1618.1763
$\frac{3}{4}$	1.60274	1605.0039	1.60364	1611.6879	1.60454	1618.3859
$\frac{25}{32}$	1.60277	1605.2126	1.60367	1611.8970	1.60457	1618.5954
$\frac{13}{16}$	1.60279	1605.4213	1.60370	1612.1061	1.60460	1618.8049
$\frac{27}{32}$	1.60282	1605.6299	1.60372	1612.3153	1.60463	1619.0145
$\frac{7}{8}$	1.60285	1605.8386	1.60375	1612.5244	1.60465	1619.2241
$\frac{29}{32}$	1.60288	1606.0474	1.60378	1612.7336	1.60468	1619.4337
$\frac{15}{8}$	1.60291	1606.2561	1.60381	1612.9427	1.60471	1619.6433
$\frac{31}{32}$	1.60294	1606.4649	1.60384	1613.1519	1.60474	1619.8529
1	1.60296	1606.6736	1.60387	1613.3611	1.60477	1620.0625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.60477	1620.0625	1.60566	1626.7778	1.60656	1633.5069
$\frac{1}{32}$	1.60479	1620.2721	1.60569	1626.9879	1.60659	1633.7175
$\frac{1}{16}$	1.60482	1620.4818	1.60572	1627.1979	1.60662	1633.9280
$\frac{3}{32}$	1.60485	1620.6915	1.60575	1627.4080	1.60664	1634.1385
$\frac{1}{8}$	1.60488	1620.9012	1.60578	1627.6182	1.60667	1634.3491
$\frac{5}{32}$	1.60491	1621.1108	1.60580	1627.8283	1.60670	1634.5596
$\frac{3}{16}$	1.60493	1621.3206	1.60583	1628.0384	1.60673	1634.7702
$\frac{7}{32}$	1.60496	1621.5303	1.60586	1628.2486	1.60676	1634.9808
$\frac{1}{4}$	1.60499	1621.7400	1.60589	1628.4588	1.60678	1635.1914
$\frac{9}{32}$	1.60502	1621.9498	1.60592	1628.6690	1.60681	1635.4020
$\frac{5}{16}$	1.60505	1622.1595	1.60594	1628.8792	1.60684	1635.6127
$\frac{11}{32}$	1.60507	1622.3693	1.60597	1629.0894	1.60687	1635.8233
$\frac{3}{8}$	1.60510	1622.5791	1.60600	1629.2996	1.60690	1636.0340
$\frac{13}{32}$	1.60513	1622.7889	1.60603	1629.5098	1.60692	1636.2446
$\frac{7}{16}$	1.60516	1622.9987	1.60606	1629.7201	1.60695	1636.4553
$\frac{15}{32}$	1.60519	1623.2086	1.60608	1629.9303	1.60698	1636.6660
$\frac{1}{2}$	1.60522	1623.4184	1.60611	1630.1406	1.60701	1636.8767
$\frac{17}{32}$	1.60524	1623.6283	1.60614	1630.3509	1.60704	1637.0875
$\frac{9}{16}$	1.60527	1623.8381	1.60617	1630.5612	1.60706	1637.2982
$\frac{19}{32}$	1.60530	1624.0480	1.60620	1630.7715	1.60709	1637.5090
$\frac{5}{8}$	1.60533	1624.2579	1.60622	1630.9819	1.60712	1637.7197
$\frac{21}{32}$	1.60536	1624.4678	1.60625	1631.1922	1.60715	1637.9305
$\frac{11}{16}$	1.60538	1624.6778	1.60628	1631.4026	1.60718	1638.1413
$\frac{23}{32}$	1.60541	1624.8877	1.60631	1631.6130	1.60720	1638.3521
$\frac{3}{4}$	1.60544	1625.0977	1.60634	1631.8234	1.60723	1638.5629
$\frac{25}{32}$	1.60547	1625.3076	1.60636	1632.0338	1.60726	1638.7738
$\frac{13}{16}$	1.60550	1625.5176	1.60639	1632.2442	1.60729	1638.9846
$\frac{27}{32}$	1.60552	1625.7276	1.60642	1632.4546	1.60732	1639.1955
$\frac{7}{8}$	1.60555	1625.9376	1.60645	1632.6650	1.60734	1639.4064
$\frac{29}{32}$	1.60558	1626.1476	1.60648	1632.8755	1.60737	1639.6172
$\frac{15}{16}$	1.60561	1626.3577	1.60650	1633.0860	1.60740	1639.8282
$\frac{31}{32}$	1.60564	1626.5677	1.60653	1633.2964	1.60743	1640.0391
1	1.60566	1626.7778	1.60656	1633.5069	1.60746	1640.2500

Fractions of an Inch	6"		7"		8"	
	Log.	Square	Log.	Square	Log.	Square
0	1.60746	1640.2500	1.60835	1647.0069	1.60924	1653.7778
$\frac{1}{32}$	1.60748	1640.4609	1.60838	1647.2183	1.60927	1653.9896
$\frac{1}{16}$	1.60751	1640.6719	1.60840	1647.4297	1.60929	1654.2014
$\frac{3}{32}$	1.60754	1640.8829	1.60843	1647.6411	1.60932	1654.4133
$\frac{1}{8}$	1.60757	1641.0939	1.60846	1647.8525	1.60935	1654.6251
$\frac{5}{32}$	1.60759	1641.3049	1.60849	1648.0640	1.60938	1654.8370
$\frac{3}{16}$	1.60762	1641.5159	1.60851	1648.2754	1.60941	1655.0489
$\frac{7}{32}$	1.60765	1641.7269	1.60854	1648.4869	1.60943	1655.2607
$\frac{1}{4}$	1.60768	1641.9379	1.60857	1648.6984	1.60946	1655.4727
$\frac{9}{32}$	1.60771	1642.1490	1.60860	1648.9098	1.60949	1655.6846
$\frac{5}{16}$	1.60773	1642.3601	1.60863	1649.1213	1.60952	1655.8965
$\frac{11}{32}$	1.60776	1642.5711	1.60865	1649.3329	1.60954	1656.1085
$\frac{3}{8}$	1.60779	1642.7822	1.60868	1649.5444	1.60957	1656.3204
$\frac{13}{32}$	1.60782	1642.9933	1.60871	1649.7559	1.60960	1656.5324
$\frac{7}{16}$	1.60785	1643.2045	1.60874	1649.9675	1.60963	1656.7444
$\frac{15}{32}$	1.60787	1643.4156	1.60877	1650.1790	1.60966	1656.9564
$\frac{1}{2}$	1.60790	1643.6267	1.60879	1650.3906	1.60968	1657.1684
$\frac{17}{32}$	1.60793	1643.8379	1.60882	1650.6022	1.60971	1657.3804
$\frac{9}{16}$	1.60796	1644.0491	1.60885	1650.8138	1.60974	1657.5925
$\frac{19}{32}$	1.60799	1644.2603	1.60888	1651.0255	1.60977	1657.8045
$\frac{5}{8}$	1.60801	1644.4715	1.60890	1651.2371	1.60979	1658.0166
$\frac{21}{32}$	1.60804	1644.6827	1.60893	1651.4487	1.60982	1658.2287
$\frac{11}{16}$	1.60807	1644.8939	1.60896	1651.6604	1.60985	1658.4408
$\frac{23}{32}$	1.60810	1645.1052	1.60899	1651.8721	1.60988	1658.6529
$\frac{3}{4}$	1.60812	1645.3164	1.60902	1652.0838	1.60991	1658.8650
$\frac{25}{32}$	1.60815	1645.5277	1.60904	1652.2955	1.60993	1659.0772
$\frac{13}{16}$	1.60818	1645.7390	1.60907	1652.5072	1.60996	1659.2893
$\frac{27}{32}$	1.60821	1645.9503	1.60910	1652.7189	1.60999	1659.5015
$\frac{7}{8}$	1.60824	1646.1616	1.60913	1652.9307	1.61002	1659.7137
$\frac{29}{32}$	1.60826	1646.3729	1.60916	1653.1424	1.61004	1659.9258
$\frac{15}{16}$	1.60829	1646.5842	1.60918	1653.3542	1.61007	1660.1380
$\frac{31}{32}$	1.60832	1646.7956	1.60921	1653.5660	1.61010	1660.3503
1	1.60835	1647.0069	1.60924	1653.7778	1.61013	1660.5625

40'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.61013	1660.5625	1.61101	1667.3611	1.61190	1674.1736
$\frac{1}{32}$	1.61016	1660.7747	1.61104	1667.5738	1.61193	1674.3867
$\frac{1}{16}$	1.61018	1660.9870	1.61107	1667.7865	1.61196	1674.5999
$\frac{3}{32}$	1.61021	1661.1993	1.61110	1667.9992	1.61198	1674.8130
$\frac{1}{8}$	1.61024	1661.4116	1.61113	1668.2119	1.61201	1675.0262
$\frac{5}{32}$	1.61027	1661.6239	1.61115	1668.4246	1.61204	1675.2393
$\frac{3}{16}$	1.61029	1661.8362	1.61118	1668.6374	1.61207	1675.4525
$\frac{7}{32}$	1.61032	1662.0485	1.61121	1668.8502	1.61209	1675.6657
$\frac{1}{4}$	1.61035	1662.2609	1.61124	1669.0629	1.61212	1675.8789
$\frac{9}{32}$	1.61038	1662.4732	1.61126	1669.2757	1.61215	1676.0921
$\frac{5}{16}$	1.61041	1662.6856	1.61129	1669.4885	1.61218	1676.3054
$\frac{11}{32}$	1.61043	1662.8980	1.61132	1669.7013	1.61220	1676.5186
$\frac{3}{8}$	1.61046	1663.1104	1.61135	1669.9142	1.61223	1676.7319
$\frac{13}{32}$	1.61049	1663.3228	1.61137	1670.1270	1.61226	1676.9452
$\frac{7}{16}$	1.61052	1663.5352	1.61140	1670.3399	1.61229	1677.1584
$\frac{15}{32}$	1.61054	1663.7476	1.61143	1670.5527	1.61231	1677.3718
$\frac{1}{2}$	1.61057	1663.9601	1.61146	1670.7656	1.61234	1677.5851
$\frac{17}{32}$	1.61060	1664.1725	1.61149	1670.9785	1.61237	1677.7984
$\frac{9}{16}$	1.61063	1664.3850	1.61151	1671.1914	1.61240	1678.0117
$\frac{19}{32}$	1.61065	1664.5975	1.61154	1671.4044	1.61243	1678.2251
$\frac{5}{8}$	1.61068	1664.8100	1.61157	1671.6173	1.61245	1678.4385
$\frac{21}{32}$	1.61071	1665.0225	1.61160	1671.8302	1.61248	1678.6519
$\frac{11}{16}$	1.61074	1665.2351	1.61162	1672.0432	1.61251	1678.8653
$\frac{23}{32}$	1.61077	1665.4476	1.61165	1672.2562	1.61254	1679.0787
$\frac{3}{4}$	1.61079	1665.6602	1.61168	1672.4692	1.61256	1679.2921
$\frac{25}{32}$	1.61082	1665.8727	1.61171	1672.6822	1.61259	1679.5055
$\frac{13}{16}$	1.61085	1666.0853	1.61173	1672.8952	1.61262	1679.7190
$\frac{27}{32}$	1.61088	1666.2979	1.61176	1673.1082	1.61265	1679.9325
$\frac{7}{8}$	1.61090	1666.5105	1.61179	1673.3213	1.61267	1680.1459
$\frac{29}{32}$	1.61093	1666.7232	1.61182	1673.5343	1.61270	1680.3594
$\frac{15}{16}$	1.61096	1666.9358	1.61184	1673.7474	1.61273	1680.5729
$\frac{31}{32}$	1.61099	1667.1484	1.61187	1673.9605	1.61276	1680.7865
1	1.61101	1667.3611	1.61190	1674.1736	1.61278	1681.0000

Fractions of an Inch	6"		7"		8"	
	Log.	Square	Log.	Square	Log.	Square
0.	1.60746	1640.2500	1.60835	1647.0069	1.60924	1653.7779
$\frac{1}{32}$	1.60748	1640.4609	1.60838	1647.2183	1.60927	1653.9896
$\frac{1}{16}$	1.60751	1640.6719	1.60840	1647.4297	1.60929	1654.2014
$\frac{3}{32}$	1.60754	1640.8829	1.60843	1647.6411	1.60932	1654.4133
$\frac{1}{8}$	1.60757	1641.0939	1.60846	1647.8526	1.60935	1654.6251
$\frac{5}{32}$	1.60759	1641.3049	1.60849	1648.0640	1.60938	1654.8370
$\frac{3}{16}$	1.60762	1641.5159	1.60851	1648.2754	1.60941	1655.0489
$\frac{7}{32}$	1.60765	1641.7269	1.60854	1648.4869	1.60943	1655.2607
$\frac{1}{4}$	1.60768	1641.9379	1.60857	1648.6984	1.60946	1655.4727
$\frac{9}{32}$	1.60771	1642.1490	1.60860	1648.9098	1.60949	1655.6846
$\frac{5}{16}$	1.60773	1642.3601	1.60863	1649.1213	1.60952	1655.8965
$\frac{11}{32}$	1.60776	1642.5711	1.60865	1649.3329	1.60954	1656.1085
$\frac{3}{8}$	1.60779	1642.7822	1.60868	1649.5444	1.60957	1656.3204
$\frac{13}{32}$	1.60782	1642.9933	1.60871	1649.7559	1.60960	1656.5324
$\frac{7}{16}$	1.60785	1643.2045	1.60874	1649.9675	1.60963	1656.7444
$\frac{15}{32}$	1.60787	1643.4156	1.60877	1650.1790	1.60966	1656.9564
$\frac{1}{2}$	1.60790	1643.6267	1.60879	1650.3906	1.60968	1657.1684
$\frac{17}{32}$	1.60793	1643.8379	1.60882	1650.6022	1.60971	1657.3804
$\frac{9}{16}$	1.60796	1644.0491	1.60885	1650.8138	1.60974	1657.5925
$\frac{19}{32}$	1.60799	1644.2603	1.60888	1651.0255	1.60977	1657.8045
$\frac{5}{8}$	1.60801	1644.4715	1.60890	1651.2371	1.60979	1658.0166
$\frac{21}{32}$	1.60804	1644.6827	1.60893	1651.4487	1.60982	1658.2287
$\frac{11}{16}$	1.60807	1644.8939	1.60896	1651.6604	1.60985	1658.4408
$\frac{23}{32}$	1.60810	1645.1052	1.60899	1651.8721	1.60988	1658.6529
$\frac{3}{4}$	1.60812	1645.3164	1.60902	1652.0838	1.60991	1658.8650
$\frac{25}{32}$	1.60815	1645.5277	1.60904	1652.2955	1.60993	1659.0772
$\frac{13}{16}$	1.60818	1645.7390	1.60907	1652.5072	1.60996	1659.2893
$\frac{27}{32}$	1.60821	1645.9503	1.60910	1652.7189	1.60999	1659.5015
$\frac{7}{8}$	1.60824	1646.1616	1.60913	1652.9307	1.61002	1659.7137
$\frac{29}{32}$	1.60826	1646.3729	1.60916	1653.1424	1.61004	1659.9258
$\frac{15}{16}$	1.60829	1646.5842	1.60918	1653.3542	1.61007	1660.1380
$\frac{31}{32}$	1.60832	1646.7956	1.60921	1653.5660	1.61010	1660.3503
1.	1.60835	1647.0069	1.60924	1653.7778	1.61013	1660.5625

40'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.61013	1660.5625	1.61101	1667.3611	1.61190	1674.1736
$\frac{1}{32}$	1.61016	1660.7747	1.61104	1667.5738	1.61193	1674.3867
$\frac{1}{16}$	1.61018	1660.9870	1.61107	1667.7865	1.61196	1674.5999
$\frac{3}{32}$	1.61021	1661.1993	1.61110	1667.9992	1.61198	1674.8130
$\frac{1}{8}$	1.61024	1661.4116	1.61113	1668.2119	1.61201	1675.0262
$\frac{5}{32}$	1.61027	1661.6239	1.61115	1668.4246	1.61204	1675.2393
$\frac{3}{16}$	1.61029	1661.8362	1.61118	1668.6374	1.61207	1675.4525
$\frac{7}{32}$	1.61032	1662.0485	1.61121	1668.8502	1.61209	1675.6657
$\frac{1}{4}$	1.61035	1662.2609	1.61124	1669.0629	1.61212	1675.8789
$\frac{9}{32}$	1.61038	1662.4732	1.61126	1669.2757	1.61215	1676.0921
$\frac{5}{16}$	1.61041	1662.6856	1.61129	1669.4885	1.61218	1676.3054
$\frac{11}{32}$	1.61043	1662.8980	1.61132	1669.7013	1.61220	1676.5186
$\frac{3}{8}$	1.61046	1663.1104	1.61135	1669.9142	1.61223	1676.7319
$\frac{13}{32}$	1.61049	1663.3228	1.61137	1670.1270	1.61226	1676.9452
$\frac{7}{16}$	1.61052	1663.5352	1.61140	1670.3399	1.61229	1677.1584
$\frac{15}{32}$	1.61054	1663.7476	1.61143	1670.5527	1.61231	1677.3718
$\frac{1}{2}$	1.61057	1663.9601	1.61146	1670.7656	1.61234	1677.5851
$\frac{17}{32}$	1.61060	1664.1725	1.61149	1670.9785	1.61237	1677.7984
$\frac{9}{16}$	1.61063	1664.3850	1.61151	1671.1914	1.61240	1678.0117
$\frac{19}{32}$	1.61065	1664.5975	1.61154	1671.4044	1.61243	1678.2251
$\frac{5}{8}$	1.61068	1664.8100	1.61157	1671.6173	1.61245	1678.4385
$\frac{21}{32}$	1.61071	1665.0225	1.61160	1671.8302	1.61248	1678.6519
$\frac{11}{16}$	1.61074	1665.2351	1.61162	1672.0432	1.61251	1678.8653
$\frac{23}{32}$	1.61077	1665.4476	1.61165	1672.2562	1.61254	1679.0787
$\frac{3}{4}$	1.61079	1665.6602	1.61168	1672.4692	1.61256	1679.2921
$\frac{25}{32}$	1.61082	1665.8727	1.61171	1672.6822	1.61259	1679.5055
$\frac{13}{16}$	1.61085	1666.0853	1.61173	1672.8952	1.61262	1679.7190
$\frac{27}{32}$	1.61088	1666.2979	1.61176	1673.1082	1.61265	1679.9325
$\frac{7}{8}$	1.61090	1666.5105	1.61179	1673.3213	1.61267	1680.1459
$\frac{29}{32}$	1.61093	1666.7232	1.61182	1673.5343	1.61270	1680.3594
$\frac{15}{16}$	1.61096	1666.9358	1.61184	1673.7474	1.61273	1680.5729
$\frac{31}{32}$	1.61099	1667.1484	1.61187	1673.9605	1.61276	1680.7865
1	1.61101	1667.3611	1.61190	1674.1736	1.61278	1681.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.61278	1681.0000	1.61367	1687.8403	1.61455	1694.6944
$\frac{1}{32}$	1.61281	1681.2135	1.61369	1688.0543	1.61457	1694.9089
$\frac{1}{16}$	1.61284	1681.4271	1.61372	1688.2683	1.61460	1695.1233
$\frac{3}{32}$	1.61287	1681.6407	1.61375	1688.4823	1.61463	1695.3377
$\frac{1}{8}$	1.61289	1681.8543	1.61378	1688.6963	1.61466	1695.5522
$\frac{5}{32}$	1.61292	1682.0679	1.61380	1688.9103	1.61468	1695.7667
$\frac{3}{16}$	1.61295	1682.2815	1.61383	1689.1244	1.61471	1695.9811
$\frac{7}{32}$	1.61298	1682.4951	1.61386	1689.3384	1.61474	1696.1956
$\frac{1}{4}$	1.61300	1682.7088	1.61389	1689.5525	1.61477	1696.4102
$\frac{9}{32}$	1.61303	1682.9224	1.61391	1689.7666	1.61479	1696.6247
$\frac{5}{16}$	1.61306	1683.1361	1.61394	1689.9807	1.61482	1696.8392
$\frac{11}{32}$	1.61309	1683.3498	1.61397	1690.1948	1.61485	1697.0538
$\frac{3}{8}$	1.61311	1683.5635	1.61400	1690.4090	1.61488	1697.2683
$\frac{13}{32}$	1.61314	1683.7772	1.61402	1690.6231	1.61490	1697.4829
$\frac{7}{16}$	1.61317	1683.9909	1.61405	1690.8373	1.61493	1697.6975
$\frac{15}{32}$	1.61320	1684.2047	1.61408	1691.0514	1.61496	1697.9121
$\frac{1}{2}$	1.61322	1684.4184	1.61411	1691.2656	1.61499	1698.1267
$\frac{17}{32}$	1.61325	1684.6322	1.61413	1691.4798	1.61501	1698.3414
$\frac{9}{16}$	1.61328	1684.8459	1.61416	1691.6940	1.61504	1698.5560
$\frac{19}{32}$	1.61331	1685.0597	1.61419	1691.9083	1.61507	1698.7707
$\frac{5}{8}$	1.61334	1685.2735	1.61422	1692.1225	1.61509	1698.9854
$\frac{21}{32}$	1.61336	1685.4874	1.61424	1692.3368	1.61512	1699.2000
$\frac{11}{16}$	1.61339	1685.7012	1.61427	1692.5510	1.61515	1699.4147
$\frac{23}{32}$	1.61342	1685.9150	1.61430	1692.7653	1.61518	1699.6295
$\frac{3}{4}$	1.61345	1686.1289	1.61433	1692.9796	1.61520	1699.8442
$\frac{25}{32}$	1.61347	1686.3428	1.61435	1693.1939	1.61523	1700.0589
$\frac{13}{16}$	1.61350	1686.5567	1.61438	1693.4082	1.61526	1700.2737
$\frac{27}{32}$	1.61353	1686.7706	1.61441	1693.6226	1.61529	1700.4885
$\frac{7}{8}$	1.61356	1686.9845	1.61444	1693.8369	1.61531	1700.7032
$\frac{29}{32}$	1.61358	1687.1984	1.61446	1694.0513	1.61534	1700.9180
$\frac{15}{16}$	1.61361	1687.4124	1.61449	1694.2657	1.61537	1701.1328
$\frac{31}{32}$	1.61364	1687.6263	1.61452	1694.4800	1.61540	1701.3477
1	1.61367	1687.8403	1.61455	1694.6944	1.61542	1701.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.61542	1701.5625	1.61630	1708.4444	1.61718	1715.3403
$\frac{1}{32}$	1.61545	1701.7774	1.61633	1708.6597	1.61720	1715.5560
$\frac{1}{16}$	1.61548	1701.9922	1.61636	1708.8750	1.61723	1715.7717
$\frac{3}{32}$	1.61551	1702.2071	1.61638	1709.0903	1.61726	1715.9875
$\frac{1}{8}$	1.61553	1702.4220	1.61641	1709.3057	1.61728	1716.2032
$\frac{5}{32}$	1.61556	1702.6369	1.61644	1709.5210	1.61731	1716.4190
$\frac{3}{16}$	1.61559	1702.8518	1.61646	1709.7364	1.61734	1716.6348
$\frac{7}{32}$	1.61562	1703.0667	1.61649	1709.9517	1.61737	1716.8506
$\frac{1}{4}$	1.61564	1703.2817	1.61652	1710.1671	1.61739	1717.0664
$\frac{9}{32}$	1.61567	1703.4966	1.61655	1710.3825	1.61742	1717.2822
$\frac{5}{16}$	1.61570	1703.7116	1.61657	1710.5979	1.61745	1717.4981
$\frac{11}{32}$	1.61573	1703.9266	1.61660	1710.8133	1.61748	1717.7139
$\frac{3}{8}$	1.61575	1704.1416	1.61663	1711.0288	1.61750	1717.9298
$\frac{13}{32}$	1.61578	1704.3566	1.61666	1711.2442	1.61753	1718.1457
$\frac{7}{16}$	1.61581	1704.5716	1.61668	1711.4597	1.61756	1718.3616
$\frac{15}{32}$	1.61584	1704.7867	1.61671	1711.6751	1.61758	1718.5775
$\frac{1}{2}$	1.61586	1705.0017	1.61674	1711.8906	1.61761	1718.7934
$\frac{17}{32}$	1.61589	1705.2168	1.61677	1712.1061	1.61764	1719.0093
$\frac{9}{16}$	1.61592	1705.4319	1.61679	1712.3216	1.61767	1719.2253
$\frac{19}{32}$	1.61594	1705.6470	1.61682	1712.5372	1.61769	1719.4413
$\frac{5}{8}$	1.61597	1705.8621	1.61685	1712.7527	1.61772	1719.6572
$\frac{21}{32}$	1.61600	1706.0772	1.61687	1712.9683	1.61775	1719.8732
$\frac{11}{16}$	1.61603	1706.2923	1.61690	1713.1833	1.61778	1720.0892
$\frac{23}{32}$	1.61605	1706.5075	1.61693	1713.3994	1.61780	1720.3052
$\frac{3}{4}$	1.61608	1706.7227	1.61696	1713.6150	1.61783	1720.5213
$\frac{25}{32}$	1.61611	1706.9378	1.61698	1713.8306	1.61786	1720.7373
$\frac{13}{16}$	1.61614	1707.1530	1.61701	1714.0463	1.61788	1720.9534
$\frac{27}{32}$	1.61616	1707.3682	1.61704	1714.2619	1.61791	1721.1694
$\frac{7}{8}$	1.61619	1707.5834	1.61707	1714.4775	1.61794	1721.3855
$\frac{29}{32}$	1.61622	1707.7987	1.61709	1714.6932	1.61797	1721.6016
$\frac{15}{16}$	1.61625	1708.0139	1.61712	1714.9089	1.61799	1721.8177
$\frac{31}{32}$	1.61627	1708.2292	1.61715	1715.1246	1.61802	1722.0339
1	1.61630	1708.4444	1.61718	1715.3403	1.61805	1722.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.61805	1722.2500	1.61892	1729.1736	1.61979	1736.1011
1/32	1.61808	1722.4662	1.61895	1729.3902	1.61982	1736.3281
1/16	1.61810	1722.6823	1.61897	1729.6068	1.61984	1736.5452
3/32	1.61813	1722.8985	1.61900	1729.8234	1.61987	1736.7622
1/8	1.61816	1723.1147	1.61903	1730.0400	1.61990	1736.9793
5/32	1.61818	1723.3309	1.61906	1730.2567	1.61992	1737.1964
3/16	1.61821	1723.5471	1.61908	1730.4733	1.61995	1737.4134
7/32	1.61824	1723.7634	1.61911	1730.6900	1.61998	1737.6305
1/4	1.61827	1723.9796	1.61914	1730.9067	1.62001	1737.8477
9/32	1.61829	1724.1959	1.61916	1731.1234	1.62003	1738.0648
5/16	1.61832	1724.4121	1.61919	1731.3401	1.62006	1738.2819
11/32	1.61835	1724.6284	1.61922	1731.5568	1.62009	1738.4991
3/8	1.61838	1724.8447	1.61925	1731.7735	1.62011	1738.7163
13/32	1.61840	1725.0610	1.61927	1731.9903	1.62014	1738.9334
7/16	1.61843	1725.2774	1.61930	1732.2071	1.62017	1739.1506
15/32	1.61846	1725.4937	1.61933	1732.4238	1.62020	1739.3678
1/2	1.61848	1725.7101	1.61935	1732.6406	1.62022	1739.5851
17/32	1.61851	1725.9264	1.61938	1732.8574	1.62025	1739.8023
9/16	1.61854	1726.1428	1.61941	1733.0742	1.62028	1740.0196
19/32	1.61857	1726.3592	1.61944	1733.2911	1.62030	1740.2368
5/8	1.61859	1726.5756	1.61946	1733.5079	1.62033	1740.4541
21/32	1.61862	1726.7921	1.61949	1733.7248	1.62036	1740.6714
11/16	1.61865	1727.0085	1.61952	1733.9417	1.62039	1740.8887
23/32	1.61867	1727.2249	1.61954	1734.1585	1.62041	1741.1060
3/4	1.61870	1727.4414	1.61957	1734.3754	1.62044	1741.3234
25/32	1.61873	1727.6579	1.61960	1734.5923	1.62047	1741.5407
13/16	1.61876	1727.8744	1.61963	1734.8093	1.62049	1741.7581
27/32	1.61878	1728.0909	1.61965	1735.0262	1.62052	1741.9754
7/8	1.61881	1728.3074	1.61968	1735.2432	1.62055	1742.1928
29/32	1.61884	1728.5239	1.61971	1735.4601	1.62058	1742.4102
15/16	1.61886	1728.7405	1.61973	1735.6771	1.62060	1742.6276
31/32	1.61889	1728.9570	1.61976	1735.8941	1.62063	1742.8451
1	1.61892	1729.1736	1.61979	1736.1111	1.62066	1743.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.62066	1743.0625	1.62152	1750.0278	1.62239	1757.0069
1/32	1.62068	1743.2800	1.62155	1750.2457	1.62241	1757.2253
1/16	1.62071	1743.4974	1.62158	1750.4636	1.62244	1757.4436
3/32	1.62074	1743.7149	1.62160	1750.6815	1.62247	1757.6620
1/8	1.62076	1743.9324	1.62163	1750.8994	1.62249	1757.8803
5/32	1.62079	1744.1499	1.62166	1751.1174	1.62252	1758.0987
3/16	1.62082	1744.3674	1.62168	1751.3353	1.62255	1758.3171
7/32	1.62085	1744.5850	1.62171	1751.5533	1.62258	1758.5355
1/4	1.62087	1744.8025	1.62174	1751.7713	1.62260	1758.7539
9/32	1.62090	1745.0201	1.62177	1751.9893	1.62263	1758.9723
5/16	1.62093	1745.2377	1.62179	1752.2073	1.62266	1759.1908
11/32	1.62095	1745.4552	1.62182	1752.4253	1.62268	1759.4092
3/8	1.62098	1745.6729	1.62185	1752.6433	1.62271	1759.6277
13/32	1.62101	1745.8905	1.62187	1752.8614	1.62274	1759.8462
7/16	1.62104	1746.1081	1.62190	1753.0795	1.62276	1760.0647
15/32	1.62106	1746.3257	1.62193	1753.2975	1.62279	1760.2832
1/2	1.62109	1746.5434	1.62195	1753.5156	1.62282	1760.5017
17/32	1.62112	1746.7611	1.62198	1753.7337	1.62285	1760.7203
9/16	1.62114	1746.9788	1.62201	1753.9519	1.62287	1760.9388
19/32	1.62117	1747.1965	1.62204	1754.1700	1.62290	1761.1574
5/8	1.62120	1747.4142	1.62206	1754.3881	1.62293	1761.3760
21/32	1.62122	1747.6319	1.62209	1754.6063	1.62295	1761.5946
11/16	1.62125	1747.8496	1.62212	1754.8245	1.62298	1761.8132
23/32	1.62128	1748.0674	1.62214	1755.0426	1.62301	1762.0318
3/4	1.62131	1748.2852	1.62217	1755.2609	1.62303	1762.2504
25/32	1.62133	1748.5029	1.62220	1755.4791	1.62306	1762.4691
13/16	1.62136	1748.7207	1.62222	1755.6973	1.62309	1762.6877
27/32	1.62139	1748.9385	1.62225	1755.9155	1.62311	1762.9064
7/8	1.62141	1749.1564	1.62228	1756.1338	1.62314	1763.1251
29/32	1.62144	1749.3742	1.62231	1756.3521	1.62317	1763.3438
15/16	1.62147	1749.5920	1.62233	1756.5703	1.62320	1763.5625
31/32	1.62150	1749.8099	1.62236	1756.7886	1.62322	1763.7813
1	1.62152	1750.0278	1.62239	1757.0069	1.62325	1764.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.62325	1764.0000	1.62411	1771.0069	1.62497	1778.0278
$\frac{1}{32}$	1.62328	1764.2188	1.62414	1771.2261	1.62500	1778.2474
$\frac{1}{16}$	1.62330	1764.4375	1.62416	1771.4453	1.62502	1778.4670
$\frac{3}{32}$	1.62333	1764.6563	1.62419	1771.6646	1.62505	1778.6867
$\frac{1}{8}$	1.62336	1764.8751	1.62422	1771.8838	1.62508	1778.9064
$\frac{5}{32}$	1.62338	1765.0939	1.62424	1772.1030	1.62510	1779.1260
$\frac{3}{16}$	1.62341	1765.3127	1.62427	1772.3223	1.62513	1779.3457
$\frac{7}{32}$	1.62344	1765.5316	1.62430	1772.5416	1.62516	1779.5654
$\frac{1}{4}$	1.62346	1765.7504	1.62433	1772.7609	1.62518	1779.7852
$\frac{9}{32}$	1.62349	1765.9693	1.62435	1772.9802	1.62521	1780.0049
$\frac{5}{16}$	1.62352	1766.1882	1.62438	1773.1995	1.62524	1780.2246
$1\frac{1}{32}$	1.62355	1766.4071	1.62441	1773.4188	1.62526	1780.4444
$\frac{3}{8}$	1.62357	1766.6260	1.62443	1773.6381	1.62529	1780.6642
$1\frac{3}{32}$	1.62360	1766.8449	1.62446	1773.8575	1.62532	1780.8840
$\frac{7}{16}$	1.62363	1767.0638	1.62449	1774.0768	1.62534	1781.1038
$1\frac{5}{32}$	1.62365	1767.2828	1.62451	1774.2962	1.62537	1781.3236
$\frac{1}{2}$	1.62368	1767.5017	1.62454	1774.5156	1.62540	1781.5434
$1\frac{7}{32}$	1.62371	1767.7207	1.62457	1774.7350	1.62542	1781.7632
$\frac{9}{16}$	1.62373	1767.9397	1.62459	1774.9545	1.62545	1781.9831
$1\frac{9}{32}$	1.62376	1768.1587	1.62462	1775.1739	1.62548	1782.2030
$\frac{5}{8}$	1.62379	1768.3777	1.62465	1775.3933	1.62551	1782.4229
$2\frac{1}{32}$	1.62381	1768.5967	1.62467	1775.6128	1.62553	1782.6427
$1\frac{1}{16}$	1.62384	1768.8158	1.62470	1775.8323	1.62556	1782.8627
$2\frac{3}{32}$	1.62387	1769.0348	1.62473	1776.0518	1.62559	1783.0826
$\frac{3}{4}$	1.62390	1769.2539	1.62475	1776.2713	1.62561	1783.3025
$2\frac{5}{32}$	1.62392	1769.4730	1.62478	1776.4908	1.62564	1783.5225
$1\frac{3}{16}$	1.62395	1769.6921	1.62481	1776.7103	1.62567	1783.7424
$2\frac{7}{32}$	1.62398	1769.9112	1.62484	1776.9299	1.62569	1783.9624
$\frac{7}{8}$	1.62400	1770.1303	1.62486	1777.1494	1.62572	1784.1824
$2\frac{9}{32}$	1.62403	1770.3495	1.62489	1777.3690	1.62575	1784.4024
$1\frac{5}{16}$	1.62406	1770.5686	1.62492	1777.5886	1.62577	1784.6224
$2\frac{11}{32}$	1.62408	1770.7878	1.62494	1777.8082	1.62580	1784.8425
1	1.62411	1771.0069	1.62497	1778.0278	1.62583	1785.0625

Fractions of an Inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.62583	1785.0625	1.62668	1792.1111	1.62754	1799.1736
$\frac{1}{32}$	1.62585	1785.2826	1.62671	1792.3316	1.62756	1799.3945
$\frac{1}{16}$	1.62588	1785.5026	1.62674	1792.5521	1.62759	1799.6155
$\frac{3}{32}$	1.62591	1785.7227	1.62676	1792.7726	1.62762	1799.8364
$\frac{1}{8}$	1.62593	1785.9428	1.62679	1792.9932	1.62764	1800.0574
$\frac{5}{32}$	1.62596	1786.1629	1.62682	1793.2137	1.62767	1800.2784
$\frac{3}{16}$	1.62599	1786.3831	1.62684	1793.4343	1.62770	1800.4994
$\frac{7}{32}$	1.62601	1786.6032	1.62687	1793.6548	1.62772	1800.7204
$\frac{1}{4}$	1.62604	1786.8234	1.62690	1793.8754	1.62775	1800.9414
$\frac{9}{32}$	1.62607	1787.0435	1.62692	1794.0960	1.62778	1801.1624
$\frac{5}{16}$	1.62609	1787.2637	1.62695	1794.3167	1.62780	1801.3835
$\frac{11}{32}$	1.62612	1787.4839	1.62698	1794.5373	1.62783	1801.6046
$\frac{3}{8}$	1.62615	1787.7041	1.62700	1794.7579	1.62786	1801.8256
$\frac{13}{32}$	1.62617	1787.9243	1.62703	1794.9786	1.62788	1802.0467
$\frac{7}{16}$	1.62620	1788.1446	1.62706	1795.1992	1.62791	1802.2678
$\frac{15}{32}$	1.62623	1788.3648	1.62708	1795.4199	1.62794	1802.4889
$\frac{1}{2}$	1.62625	1788.5851	1.62711	1795.6406	1.62796	1802.7101
$\frac{17}{32}$	1.62628	1788.8053	1.62714	1795.8613	1.62799	1802.9312
$\frac{9}{16}$	1.62631	1789.0256	1.62716	1796.0821	1.62802	1803.1524
$\frac{19}{32}$	1.62634	1789.2459	1.62719	1796.3028	1.62804	1803.3735
$\frac{5}{8}$	1.62636	1789.4663	1.62722	1796.5235	1.62807	1803.5947
$\frac{21}{32}$	1.62639	1789.6866	1.62724	1796.7443	1.62810	1803.8159
$\frac{11}{16}$	1.62642	1789.9069	1.62727	1796.9651	1.62812	1804.0371
$\frac{23}{32}$	1.62644	1790.1273	1.62730	1797.1859	1.62815	1804.2584
$\frac{3}{4}$	1.62647	1790.3477	1.62732	1797.4067	1.62818	1804.4796
$\frac{25}{32}$	1.62650	1790.5680	1.62735	1797.6275	1.62820	1804.7009
$\frac{13}{16}$	1.62652	1790.7884	1.62738	1797.8483	1.62823	1804.9221
$\frac{27}{32}$	1.62655	1791.0089	1.62740	1798.0692	1.62826	1805.1434
$\frac{7}{8}$	1.62658	1791.2293	1.62743	1798.2900	1.62828	1805.3647
$\frac{29}{32}$	1.62660	1791.4497	1.62746	1798.5109	1.62831	1805.5860
$\frac{15}{16}$	1.62663	1791.6702	1.62748	1798.7318	1.62834	1805.8073
$\frac{31}{32}$	1.62666	1791.8906	1.62751	1798.9527	1.62836	1806.0287
1	1.62668	1792.1111	1.62754	1799.1736	1.62839	1806.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.62839	1806.2500	1.62924	1813.3403	1.63009	1820.4444
$\frac{1}{32}$	1.62842	1806.4714	1.62927	1813.5621	1.63012	1820.6667
$\frac{1}{16}$	1.62844	1806.6927	1.62929	1813.7839	1.63014	1820.8889
$\frac{3}{32}$	1.62847	1806.9141	1.62932	1814.0057	1.63017	1821.1112
$\frac{1}{8}$	1.62850	1807.1355	1.62935	1814.2275	1.63019	1821.3334
$\frac{5}{32}$	1.62852	1807.3569	1.62937	1814.4494	1.63022	1821.5557
$\frac{3}{16}$	1.62855	1807.5784	1.62940	1814.6713	1.63025	1821.7780
$\frac{7}{32}$	1.62858	1807.7998	1.62943	1814.8931	1.63027	1822.0003
$\frac{1}{4}$	1.62860	1808.0213	1.62945	1815.1150	1.63030	1822.2227
$\frac{9}{32}$	1.62863	1808.2427	1.62948	1815.3369	1.63033	1822.4450
$\frac{5}{16}$	1.62865	1808.4642	1.62951	1815.5588	1.63035	1822.6673
$\frac{11}{32}$	1.62868	1808.6857	1.62953	1815.7808	1.63038	1822.8897
$\frac{3}{8}$	1.62871	1808.9072	1.62956	1816.0027	1.63041	1823.1121
$\frac{13}{32}$	1.62873	1809.1288	1.62958	1816.2247	1.63043	1823.3345
$\frac{7}{16}$	1.62876	1809.3503	1.62961	1816.4466	1.63046	1823.5569
$\frac{15}{32}$	1.62879	1809.5718	1.62964	1816.6686	1.63049	1823.7793
$\frac{1}{2}$	1.62881	1809.7934	1.62966	1816.8906	1.63051	1824.0017
$\frac{17}{32}$	1.62884	1810.0150	1.62969	1817.1126	1.63054	1824.2242
$\frac{9}{16}$	1.62887	1810.2366	1.62972	1817.3347	1.63057	1824.4466
$\frac{19}{32}$	1.62889	1810.4582	1.62974	1817.5567	1.63059	1824.6691
$\frac{5}{8}$	1.62892	1810.6798	1.62977	1817.7788	1.63062	1824.8916
$\frac{21}{32}$	1.62895	1810.9014	1.62980	1818.0008	1.63065	1825.1141
$\frac{11}{16}$	1.62897	1811.1231	1.62982	1818.2229	1.63067	1825.3366
$\frac{23}{32}$	1.62900	1811.3447	1.62985	1818.4450	1.63070	1825.5591
$\frac{3}{4}$	1.62903	1811.5664	1.62988	1818.6671	1.63072	1825.7817
$\frac{25}{32}$	1.62905	1811.7881	1.62990	1818.8892	1.63075	1826.0042
$\frac{13}{16}$	1.62908	1812.0098	1.62993	1819.1114	1.63078	1826.2268
$\frac{27}{32}$	1.62911	1812.2315	1.62996	1819.3335	1.63080	1826.4494
$\frac{7}{8}$	1.62913	1812.4532	1.62998	1819.5557	1.63083	1826.6720
$\frac{29}{32}$	1.62916	1812.6750	1.63001	1819.7778	1.63086	1826.8946
$\frac{15}{16}$	1.62919	1812.8967	1.63004	1820.0000	1.63088	1827.1172
$\frac{31}{32}$	1.62921	1813.1185	1.63006	1820.2222	1.63091	1827.3399
1	1.62924	1813.3403	1.63009	1820.4444	1.63094	1827.5625

Fractions of an Inch	9"		10"		11"	
	Log.	Square	Log.	Square	Log.	Square
0	1.63094	1827.5625	1.63178	1834.6944	1.63263	1841.8403
$\frac{1}{32}$	1.63096	1827.7852	1.63181	1834.9175	1.63265	1842.0638
$\frac{1}{16}$	1.63099	1828.0078	1.63183	1835.1407	1.63268	1842.2874
$\frac{3}{32}$	1.63102	1828.2305	1.63186	1835.3638	1.63271	1842.5109
$\frac{1}{8}$	1.63104	1828.4532	1.63189	1835.5869	1.63273	1842.7345
$\frac{5}{32}$	1.63107	1828.6760	1.63191	1835.8101	1.63276	1842.9581
$\frac{3}{16}$	1.63109	1828.8987	1.63194	1836.0332	1.63278	1843.1817
$\frac{7}{32}$	1.63112	1829.1214	1.63197	1836.2564	1.63281	1843.4053
$\frac{1}{4}$	1.63115	1829.3442	1.63199	1836.4796	1.63284	1843.6289
$\frac{9}{32}$	1.63117	1829.5670	1.63202	1836.7028	1.63286	1843.8525
$\frac{5}{16}$	1.63120	1829.7897	1.63205	1836.9260	1.63289	1844.0762
$\frac{11}{32}$	1.63123	1830.0125	1.63207	1837.1493	1.63292	1844.2999
$\frac{3}{8}$	1.63125	1830.2354	1.63210	1837.3725	1.63294	1844.5235
$\frac{13}{32}$	1.63128	1830.4582	1.63212	1837.5958	1.63297	1844.7472
$\frac{7}{16}$	1.63131	1830.6810	1.63215	1837.8190	1.63299	1844.9709
$\frac{15}{32}$	1.63133	1830.9039	1.63218	1838.0423	1.63302	1845.1947
$\frac{1}{2}$	1.63136	1831.1267	1.63220	1838.2656	1.63305	1845.4184
$\frac{17}{32}$	1.63139	1831.3496	1.63223	1838.4889	1.63307	1845.6422
$\frac{9}{16}$	1.63141	1831.5725	1.63226	1838.7123	1.63310	1845.8659
$\frac{19}{32}$	1.63144	1831.7954	1.63228	1838.9356	1.63313	1846.0897
$\frac{5}{8}$	1.63146	1832.0183	1.63231	1839.1590	1.63315	1846.3135
$\frac{21}{32}$	1.63149	1832.2413	1.63234	1839.3823	1.63318	1846.5373
$\frac{11}{16}$	1.63152	1832.4642	1.63236	1839.6057	1.63321	1846.7611
$\frac{23}{32}$	1.63154	1832.6872	1.63239	1839.8291	1.63323	1846.9849
$\frac{3}{4}$	1.63157	1832.9102	1.63242	1840.0525	1.63326	1847.2088
$\frac{25}{32}$	1.63160	1833.1331	1.63244	1840.2759	1.63328	1847.4326
$\frac{13}{16}$	1.63162	1833.3561	1.63247	1840.4994	1.63331	1847.6565
$\frac{27}{32}$	1.63165	1833.5792	1.63249	1840.7228	1.63334	1847.8804
$\frac{7}{8}$	1.63168	1833.8022	1.63252	1840.9463	1.63336	1848.1043
$\frac{29}{32}$	1.63170	1834.0252	1.63255	1841.1698	1.63339	1848.3282
$\frac{15}{16}$	1.63173	1834.2483	1.63257	1841.3933	1.63342	1848.5521
$\frac{31}{32}$	1.63176	1834.4714	1.63260	1841.6168	1.63344	1848.7760
1	1.63178	1834.6944	1.63263	1841.8403	1.63347	1849.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.63347	1849.0000	1.63431	1856.1736	1.63515	1863.3611
$\frac{1}{32}$	1.63349	1849.2240	1.63434	1856.3980	1.63517	1863.5859
$\frac{1}{16}$	1.63352	1849.4479	1.63436	1856.6224	1.63520	1863.8108
$\frac{3}{32}$	1.63355	1849.6719	1.63439	1856.8468	1.63523	1864.0357
$\frac{1}{8}$	1.63357	1849.8959	1.63441	1857.0713	1.63525	1864.2605
$\frac{5}{32}$	1.63360	1850.1200	1.63444	1857.2957	1.63528	1864.4854
$\frac{3}{16}$	1.63363	1850.3440	1.63447	1857.5202	1.63531	1864.7103
$\frac{7}{32}$	1.63365	1850.5680	1.63449	1857.7447	1.63533	1864.9352
$\frac{1}{4}$	1.63368	1850.7921	1.63452	1857.9692	1.63536	1865.1602
$\frac{9}{32}$	1.63371	1851.0162	1.63455	1858.1937	1.63538	1865.3851
$\frac{5}{16}$	1.63373	1851.2403	1.63457	1858.4182	1.63541	1865.6101
$\frac{11}{32}$	1.63376	1851.4644	1.63460	1858.6427	1.63544	1865.8350
$\frac{3}{8}$	1.63378	1851.6885	1.63462	1858.8673	1.63546	1866.0600
$\frac{13}{32}$	1.63381	1851.9126	1.63465	1859.0919	1.63549	1866.2850
$\frac{7}{16}$	1.63384	1852.1367	1.63468	1859.3164	1.63552	1866.5100
$\frac{15}{32}$	1.63386	1852.3609	1.63470	1859.5410	1.63554	1866.7350
$\frac{1}{2}$	1.63389	1852.5851	1.63473	1859.7656	1.63557	1866.9601
$\frac{17}{32}$	1.63392	1852.8093	1.63476	1859.9902	1.63559	1867.1851
$\frac{9}{16}$	1.63394	1853.0334	1.63478	1860.2149	1.63562	1867.4102
$\frac{19}{32}$	1.63397	1853.2577	1.63481	1860.4395	1.63565	1867.6353
$\frac{5}{8}$	1.63399	1853.4819	1.63483	1860.6642	1.63567	1867.8604
$\frac{21}{32}$	1.63402	1853.7061	1.63486	1860.8888	1.63570	1868.0855
$\frac{11}{16}$	1.63405	1853.9304	1.63489	1861.1135	1.63572	1868.3106
$\frac{23}{32}$	1.63407	1854.1546	1.63491	1861.3382	1.63575	1868.5357
$\frac{3}{4}$	1.63410	1854.3789	1.63494	1861.5629	1.63578	1868.7609
$\frac{25}{32}$	1.63413	1854.6032	1.63497	1861.7877	1.63580	1868.9860
$\frac{13}{16}$	1.63415	1854.8275	1.63499	1862.0124	1.63583	1869.2112
$\frac{27}{32}$	1.63418	1855.0518	1.63502	1862.2371	1.63586	1869.4364
$\frac{7}{8}$	1.63420	1855.2761	1.63504	1862.4619	1.63588	1869.6616
$\frac{29}{32}$	1.63423	1855.5005	1.63507	1862.6867	1.63591	1869.8868
$\frac{15}{16}$	1.63426	1855.7249	1.63510	1862.9115	1.63593	1870.1120
$\frac{31}{32}$	1.63428	1855.9492	1.63512	1863.1363	1.63596	1870.3372
1	1.63431	1856.1736	1.63515	1863.3611	1.63599	1870.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.63599	1870.5625	1.63682	1877.7778	1.63766	1885.0069
$\frac{1}{32}$	1.63601	1870.7878	1.63685	1878.0035	1.63768	1885.2331
$\frac{1}{16}$	1.63604	1871.0130	1.63687	1878.2292	1.63771	1885.4592
$\frac{3}{32}$	1.63606	1871.2383	1.63690	1878.4549	1.63773	1885.6854
$\frac{1}{8}$	1.63609	1871.4637	1.63693	1878.6807	1.63776	1885.9116
$\frac{5}{32}$	1.63612	1871.6890	1.63695	1878.9064	1.63779	1886.1378
$\frac{3}{16}$	1.63614	1871.9143	1.63698	1879.1322	1.63781	1886.3640
$\frac{7}{32}$	1.63617	1872.1397	1.63700	1879.3580	1.63784	1886.5902
$\frac{1}{4}$	1.63620	1872.3650	1.63703	1879.5838	1.63786	1886.8164
$\frac{9}{32}$	1.63622	1872.5904	1.63706	1879.8096	1.63789	1887.0426
$\frac{5}{16}$	1.63625	1872.8158	1.63708	1880.0354	1.63792	1887.2689
$\frac{11}{32}$	1.63627	1873.0412	1.63711	1880.2612	1.63794	1887.4952
$\frac{3}{8}$	1.63630	1873.2666	1.63714	1880.4871	1.63797	1887.7215
$\frac{13}{32}$	1.63633	1873.4920	1.63716	1880.7130	1.63799	1887.9478
$\frac{7}{16}$	1.63635	1873.7175	1.63719	1880.9388	1.63802	1888.1741
$\frac{15}{32}$	1.63638	1873.9429	1.63721	1881.1647	1.63805	1888.4004
$\frac{1}{2}$	1.63640	1874.1684	1.63724	1881.3906	1.63807	1888.6267
$\frac{17}{32}$	1.63643	1874.3939	1.63727	1881.6165	1.63810	1888.8531
$\frac{9}{16}$	1.63646	1874.6194	1.63729	1881.8425	1.63813	1889.0795
$\frac{19}{32}$	1.63648	1874.8449	1.63732	1882.0684	1.63815	1889.3058
$\frac{5}{8}$	1.63651	1875.0704	1.63734	1882.2944	1.63818	1889.5322
$\frac{21}{32}$	1.63653	1875.2960	1.63737	1882.5204	1.63820	1889.7586
$\frac{11}{16}$	1.63656	1875.5215	1.63740	1882.7463	1.63823	1889.9851
$\frac{23}{32}$	1.63659	1875.7471	1.63742	1882.9723	1.63826	1890.2115
$\frac{3}{4}$	1.63661	1875.9727	1.63745	1883.1984	1.63828	1890.4379
$\frac{25}{32}$	1.63664	1876.1982	1.63747	1883.4244	1.63831	1890.6644
$\frac{13}{16}$	1.63667	1876.4239	1.63750	1883.6504	1.63833	1890.8909
$\frac{27}{32}$	1.63669	1876.6495	1.63753	1883.8765	1.63836	1891.1174
$\frac{7}{8}$	1.63672	1876.8751	1.63755	1884.1025	1.63839	1891.3439
$\frac{29}{32}$	1.63674	1877.1008	1.63758	1884.3286	1.63841	1891.5704
$\frac{15}{16}$	1.63677	1877.3264	1.63760	1884.5547	1.63844	1891.7969
$\frac{31}{32}$	1.63680	1877.5521	1.63763	1884.7808	1.63846	1892.0234
1	1.63682	1877.7778	1.63766	1885.0069	1.63849	1892.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.63849	1892.2500	1.63932	1899.5069	1.64015	1906.7778
$\frac{1}{32}$	1.63852	1892.4766	1.63935	1899.7339	1.64018	1907.0652
$\frac{1}{16}$	1.63854	1892.7032	1.63937	1899.9610	1.64020	1907.2827
$\frac{3}{32}$	1.63857	1892.9297	1.63940	1900.1880	1.64023	1907.4601
$\frac{1}{8}$	1.63859	1893.1564	1.63942	1900.4150	1.64025	1907.6876
$\frac{5}{32}$	1.63862	1893.3830	1.63945	1900.6421	1.64028	1907.9151
$\frac{3}{16}$	1.63865	1893.6096	1.63948	1900.8692	1.64031	1908.1426
$\frac{7}{32}$	1.63867	1893.8363	1.63950	1901.0963	1.64033	1908.3701
$\frac{1}{4}$	1.63870	1894.0629	1.63953	1901.3234	1.64036	1908.5977
$\frac{9}{32}$	1.63872	1894.2896	1.63955	1901.5505	1.64038	1908.8252
$\frac{5}{16}$	1.63875	1894.5163	1.63958	1901.7776	1.64041	1909.0528
$\frac{11}{32}$	1.63878	1894.7430	1.63961	1902.0047	1.64043	1909.2803
$\frac{3}{8}$	1.63880	1894.9697	1.63963	1902.2319	1.64046	1909.5079
$\frac{13}{32}$	1.63883	1895.1965	1.63966	1902.4590	1.64049	1909.7355
$\frac{7}{16}$	1.63885	1895.4232	1.63968	1902.6862	1.64051	1909.9631
$\frac{15}{32}$	1.63888	1895.6500	1.63971	1902.9134	1.64054	1910.1908
$\frac{1}{2}$	1.63891	1895.8767	1.63974	1903.1406	1.64056	1910.4184
$\frac{17}{32}$	1.63893	1896.1035	1.63976	1903.3678	1.64059	1910.6461
$\frac{9}{16}$	1.63896	1896.3303	1.63979	1903.5951	1.64062	1910.8737
$\frac{19}{32}$	1.63898	1896.5571	1.63981	1903.8223	1.64064	1911.1014
$\frac{5}{8}$	1.63901	1896.7840	1.63984	1904.0496	1.64067	1911.3291
$\frac{21}{32}$	1.63903	1897.0108	1.63987	1904.2769	1.64069	1911.5568
$\frac{11}{16}$	1.63906	1897.2377	1.63989	1904.5042	1.64072	1911.7845
$\frac{23}{32}$	1.63909	1897.4645	1.63992	1904.7315	1.64075	1912.0123
$\frac{3}{4}$	1.63911	1897.6914	1.63994	1904.9588	1.64077	1912.2400
$\frac{25}{32}$	1.63914	1897.9183	1.63997	1905.1861	1.64080	1912.4678
$\frac{13}{16}$	1.63916	1898.1452	1.63999	1905.4134	1.64082	1912.6956
$\frac{27}{32}$	1.63919	1898.3721	1.64002	1905.6408	1.64085	1912.9233
$\frac{7}{8}$	1.63922	1898.5991	1.64005	1905.8682	1.64087	1913.1512
$\frac{29}{32}$	1.63924	1898.8260	1.64007	1906.0955	1.64090	1913.3790
$\frac{15}{16}$	1.63927	1899.0530	1.64010	1906.3229	1.64093	1913.6068
$\frac{31}{32}$	1.63929	1899.2800	1.64012	1906.5504	1.64095	1913.8346
1	1.63932	1899.5069	1.64015	1906.7778	1.64098	1914.0625

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0-	1.64098	1914.0625	1.64180	1921.3611	1.64263	1928.6736
$\frac{1}{32}$	1.64100	1914.2904	1.64183	1921.5894	1.64266	1928.9024
$\frac{1}{16}$	1.64103	1914.5183	1.64186	1921.8177	1.64268	1929.1311
$\frac{3}{32}$	1.64106	1914.7462	1.64188	1922.0461	1.64271	1929.3599
$\frac{1}{8}$	1.64108	1914.9741	1.64191	1922.2744	1.64273	1929.5887
$\frac{5}{32}$	1.64111	1915.2020	1.64193	1922.5028	1.64276	1929.8174
$\frac{3}{16}$	1.64113	1915.4299	1.64196	1922.7311	1.64278	1930.0463
$\frac{7}{32}$	1.64116	1915.6579	1.64199	1922.9595	1.64281	1930.2751
$\frac{1}{4}$	1.64118	1915.8859	1.64201	1923.1879	1.64284	1930.5039
$\frac{9}{32}$	1.64121	1916.1138	1.64204	1923.4163	1.64286	1930.7328
$\frac{5}{16}$	1.64124	1916.3418	1.64206	1923.6448	1.64289	1930.9616
$\frac{11}{32}$	1.64126	1916.5698	1.64209	1923.8732	1.64291	1931.1905
$\frac{3}{8}$	1.64129	1916.7979	1.64211	1924.1017	1.64294	1931.4194
$\frac{13}{32}$	1.64131	1917.0259	1.64214	1924.3301	1.64296	1931.6483
$\frac{7}{16}$	1.64134	1917.2539	1.64217	1924.5586	1.64299	1931.8772
$\frac{15}{32}$	1.64137	1917.4820	1.64219	1924.7871	1.64302	1932.1061
$\frac{1}{2}$	1.64139	1917.7101	1.64222	1925.0156	1.64304	1932.3351
$\frac{17}{32}$	1.64142	1917.9382	1.64224	1925.2441	1.64307	1932.5640
$\frac{9}{16}$	1.64144	1918.1663	1.64227	1925.4727	1.64309	1932.7930
$\frac{19}{32}$	1.64147	1918.3944	1.64229	1925.7012	1.64312	1933.0220
$\frac{5}{8}$	1.64149	1918.6225	1.64232	1925.9298	1.64314	1933.2510
$\frac{21}{32}$	1.64152	1918.8506	1.64235	1926.1584	1.64317	1933.4800
$\frac{11}{16}$	1.64155	1919.0788	1.64237	1926.3870	1.64320	1933.7090
$\frac{23}{32}$	1.64157	1919.3070	1.64240	1926.6156	1.64322	1933.9380
$\frac{3}{4}$	1.64160	1919.5352	1.64242	1926.8442	1.64325	1934.1671
$\frac{25}{32}$	1.64162	1919.7634	1.64245	1927.0728	1.64327	1934.3962
$\frac{13}{16}$	1.64165	1919.9916	1.64247	1927.3015	1.64330	1934.6252
$\frac{27}{32}$	1.64168	1920.2198	1.64250	1927.5301	1.64332	1934.8543
$\frac{7}{8}$	1.64170	1920.4480	1.64253	1927.7588	1.64335	1935.0834
$\frac{29}{32}$	1.64173	1920.6763	1.64255	1927.9875	1.64338	1935.3126
$\frac{15}{16}$	1.64175	1920.9045	1.64258	1928.2162	1.64340	1935.5417
$\frac{31}{32}$	1.64178	1921.1328	1.64260	1928.4449	1.64343	1935.7708
1	1.64180	1921.3611	1.64263	1928.6736	1.64345	1936.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.64345	1936.0000	1.64427	1943.3403	1.64509	1950.6944
$\frac{1}{32}$	1.64348	1936.2292	1.64430	1943.5699	1.64512	1950.9245
$\frac{1}{16}$	1.64350	1936.4584	1.64433	1943.7995	1.64515	1951.1545
$\frac{3}{32}$	1.64353	1936.6876	1.64435	1944.0291	1.64517	1951.3846
$\frac{1}{8}$	1.64356	1936.9168	1.64438	1944.2588	1.64520	1951.6147
$\frac{5}{32}$	1.64358	1937.1460	1.64440	1944.4885	1.64522	1951.8448
$\frac{3}{16}$	1.64361	1937.3752	1.64443	1944.7181	1.64525	1952.0749
$\frac{7}{32}$	1.64363	1937.6045	1.64445	1944.9478	1.64527	1952.3050
$\frac{1}{4}$	1.64366	1937.8338	1.64448	1945.1775	1.64530	1952.5352
$\frac{9}{32}$	1.64368	1938.0630	1.64451	1945.4072	1.64533	1952.7653
$\frac{5}{16}$	1.64371	1938.2923	1.64453	1945.6370	1.64535	1952.9955
$1\frac{1}{32}$	1.64374	1938.5217	1.64456	1945.8667	1.64538	1953.2256
$\frac{3}{8}$	1.64376	1938.7510	1.64458	1946.0965	1.64540	1953.4558
$1\frac{3}{32}$	1.64379	1938.9803	1.64461	1946.3262	1.64543	1953.6860
$\frac{7}{16}$	1.64381	1939.2097	1.64463	1946.5560	1.64545	1953.9163
$1\frac{5}{32}$	1.64384	1939.4390	1.64466	1946.7858	1.64548	1954.1465
$\frac{1}{2}$	1.64386	1939.6684	1.64468	1947.0156	1.64550	1954.3767
$1\frac{7}{32}$	1.64389	1939.8978	1.64471	1947.2454	1.64553	1954.6070
$\frac{9}{16}$	1.64392	1940.1272	1.64474	1947.4753	1.64556	1954.8373
$1\frac{9}{32}$	1.64394	1940.3566	1.64476	1947.7051	1.64558	1955.0676
$\frac{5}{8}$	1.64397	1940.5860	1.64479	1947.9350	1.64561	1955.2979
$2\frac{1}{32}$	1.64399	1940.8155	1.64481	1948.1649	1.64563	1955.5282
$1\frac{1}{4}$	1.64402	1941.0449	1.64484	1948.3948	1.64566	1955.7585
$2\frac{3}{32}$	1.64404	1941.2744	1.64486	1948.6247	1.64568	1955.9888
$\frac{3}{4}$	1.64407	1941.5039	1.64489	1948.8546	1.64571	1956.2192
$2\frac{5}{32}$	1.64409	1941.7334	1.64492	1949.0845	1.64573	1956.4496
$1\frac{3}{8}$	1.64412	1941.9629	1.64494	1949.3145	1.64576	1956.6799
$2\frac{7}{32}$	1.64415	1942.1924	1.64497	1949.5444	1.64579	1956.9103
$\frac{7}{8}$	1.64417	1942.4220	1.64499	1949.7744	1.64581	1957.1407
$2\frac{9}{32}$	1.64420	1942.6515	1.64502	1950.0044	1.64584	1957.3712
$1\frac{5}{8}$	1.64422	1942.8811	1.64504	1950.2344	1.64586	1957.6016
$2\frac{11}{32}$	1.64425	1943.1107	1.64507	1950.4644	1.64589	1957.8320
1	1.64427	1943.3403	1.64509	1950.6944	1.64591	1958.0625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.64591	1958.0625	1.64673	1965.4444	1.64755	1972.8403
$\frac{1}{32}$	1.64594	1958.2930	1.64676	1965.6754	1.64757	1973.0716
$\frac{1}{16}$	1.64596	1958.5235	1.64678	1965.9063	1.64760	1973.3030
$\frac{3}{32}$	1.64599	1958.7540	1.64681	1966.1372	1.64762	1973.5343
$\frac{1}{8}$	1.64602	1958.9845	1.64683	1966.3682	1.64765	1973.7657
$\frac{5}{32}$	1.64604	1959.2150	1.64686	1966.5991	1.64767	1973.9971
$\frac{3}{16}$	1.64607	1959.4456	1.64688	1966.8301	1.64770	1974.2285
$\frac{7}{32}$	1.64609	1959.6761	1.64691	1967.0611	1.64772	1974.4600
$\frac{1}{4}$	1.64612	1959.9067	1.64693	1967.2921	1.64775	1974.6914
$\frac{9}{32}$	1.64614	1960.1373	1.64696	1967.5231	1.64778	1974.9229
$\frac{5}{16}$	1.64617	1960.3679	1.64699	1967.7542	1.64780	1975.1543
$\frac{11}{32}$	1.64619	1960.5985	1.64701	1967.9852	1.64783	1975.3858
$\frac{3}{8}$	1.64622	1960.8291	1.64704	1968.2163	1.64785	1975.6173
$\frac{13}{32}$	1.64625	1961.0597	1.64706	1968.4473	1.64788	1975.8488
$\frac{7}{16}$	1.64627	1961.2904	1.64709	1968.6784	1.64790	1976.0803
$\frac{15}{32}$	1.64630	1961.5211	1.64711	1968.9095	1.64793	1976.3119
$\frac{1}{2}$	1.64632	1961.7517	1.64714	1969.1406	1.64795	1976.5434
$\frac{17}{32}$	1.64635	1961.9824	1.64716	1969.3718	1.64798	1976.7750
$\frac{9}{16}$	1.64637	1962.2131	1.64719	1969.6029	1.64800	1977.0065
$\frac{19}{32}$	1.64640	1962.4439	1.64721	1969.8340	1.64803	1977.2381
$\frac{5}{8}$	1.64642	1962.6746	1.64724	1970.0652	1.64805	1977.4697
$\frac{21}{32}$	1.64645	1962.9053	1.64727	1970.2964	1.64808	1977.7013
$\frac{11}{16}$	1.64648	1963.1361	1.64729	1970.5276	1.64811	1977.9330
$\frac{23}{32}$	1.64650	1963.3669	1.64732	1970.7588	1.64813	1978.1646
$\frac{3}{4}$	1.64653	1963.5977	1.64734	1970.9900	1.64816	1978.3963
$\frac{25}{32}$	1.64655	1963.8285	1.64737	1971.2213	1.64818	1978.6279
$\frac{13}{16}$	1.64658	1964.0593	1.64739	1971.4525	1.64821	1978.8596
$\frac{27}{32}$	1.64660	1964.2901	1.64742	1971.6838	1.64823	1979.0913
$\frac{7}{8}$	1.64663	1964.5209	1.64744	1971.9150	1.64826	1979.3230
$\frac{29}{32}$	1.64665	1964.7518	1.64747	1972.1463	1.64828	1979.5547
$\frac{15}{16}$	1.64668	1964.9827	1.64750	1972.3776	1.64831	1979.7865
$\frac{31}{32}$	1.64670	1965.2135	1.64752	1972.6089	1.64833	1980.0182
1	1.64673	1965.4444	1.64755	1972.8403	1.64836	1980.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.64836	1980.2500	1.64917	1987.6736	1.64998	1995.1111
$\frac{1}{32}$	1.64839	1980.4818	1.64920	1987.9058	1.65001	1995.3438
$\frac{1}{16}$	1.64841	1980.7136	1.64922	1988.1380	1.65003	1995.5764
$\frac{3}{32}$	1.64844	1980.9454	1.64925	1988.3703	1.65006	1995.8091
$\frac{1}{8}$	1.64846	1981.1772	1.64927	1988.6025	1.65008	1996.0418
$\frac{5}{32}$	1.64849	1981.4090	1.64930	1988.8348	1.65011	1996.2745
$\frac{3}{16}$	1.64851	1981.6409	1.64932	1989.0671	1.65014	1996.5072
$\frac{7}{32}$	1.64854	1981.8727	1.64935	1989.2994	1.65016	1996.7399
$\frac{1}{4}$	1.64856	1982.1046	1.64938	1989.5317	1.65019	1996.9727
$\frac{9}{32}$	1.64859	1982.3365	1.64940	1989.7640	1.65021	1997.2054
$\frac{5}{16}$	1.64861	1982.5684	1.64943	1989.9963	1.65024	1997.4382
$\frac{11}{32}$	1.64864	1982.8003	1.64945	1990.2287	1.65026	1997.6710
$\frac{3}{8}$	1.64866	1983.0322	1.64948	1990.4610	1.65029	1997.9038
$\frac{13}{32}$	1.64869	1983.2642	1.64950	1990.6934	1.65031	1998.1366
$\frac{7}{16}$	1.64872	1983.4961	1.64953	1990.9258	1.65034	1998.3694
$\frac{15}{32}$	1.64874	1983.7281	1.64955	1991.1582	1.65036	1998.6022
$\frac{1}{2}$	1.64877	1983.9601	1.64958	1991.3906	1.65039	1998.8351
$\frac{17}{32}$	1.64879	1984.1921	1.64960	1991.6231	1.65041	1999.0679
$\frac{9}{16}$	1.64882	1984.4241	1.64963	1991.8555	1.65044	1999.3008
$\frac{19}{32}$	1.64884	1984.6561	1.64965	1992.0880	1.65046	1999.5337
$\frac{5}{8}$	1.64887	1984.8881	1.64968	1992.3204	1.65049	1999.7666
$\frac{21}{32}$	1.64889	1985.1202	1.64970	1992.5529	1.65051	1999.9995
$\frac{11}{16}$	1.64892	1985.3522	1.64973	1992.7854	1.65054	2000.2324
$\frac{23}{32}$	1.64894	1985.5843	1.64976	1993.0179	1.65057	2000.4654
$\frac{3}{4}$	1.64897	1985.8164	1.64978	1993.2504	1.65059	2000.6984
$\frac{25}{32}$	1.64899	1986.0485	1.64981	1993.4830	1.65062	2000.9313
$\frac{13}{16}$	1.64902	1986.2806	1.64983	1993.7155	1.65064	2001.1643
$\frac{27}{32}$	1.64905	1986.5128	1.64986	1993.9481	1.65067	2001.3973
$\frac{7}{8}$	1.64907	1986.7449	1.64988	1994.1807	1.65069	2001.6303
$\frac{29}{32}$	1.64910	1986.9771	1.64991	1994.4133	1.65072	2001.8633
$\frac{15}{16}$	1.64912	1987.2092	1.64993	1994.6459	1.65074	2002.0964
$\frac{31}{32}$	1.64915	1987.4414	1.64996	1994.8785	1.65077	2002.3294
1	1.64917	1987.6736	1.64998	1995.1111	1.65079	2002.5625

44'

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.65079	2002.5625	1.65160	2010.0278	1.65241	2017.5069
$\frac{1}{32}$	1.65082	2002.7956	1.65163	2010.2613	1.65243	2017.7409
$\frac{1}{16}$	1.65084	2003.0287	1.65165	2010.4948	1.65246	2017.9749
$\frac{3}{32}$	1.65087	2003.2618	1.65168	2010.7284	1.65248	2018.2088
$\frac{1}{8}$	1.65089	2003.4949	1.65170	2010.9619	1.65251	2018.4428
$\frac{5}{32}$	1.65092	2003.7280	1.65173	2011.1955	1.65253	2018.6768
$\frac{3}{16}$	1.65094	2003.9612	1.65175	2011.4291	1.65256	2018.9108
$\frac{7}{32}$	1.65097	2004.1943	1.65178	2011.6627	1.65258	2019.1449
$\frac{1}{4}$	1.65100	2004.4275	1.65180	2011.8963	1.65261	2019.3789
$\frac{9}{32}$	1.65102	2004.6607	1.65183	2012.1299	1.65263	2019.6130
$\frac{5}{16}$	1.65105	2004.8939	1.65185	2012.3635	1.65266	2019.8470
$\frac{11}{32}$	1.65107	2005.1271	1.65188	2012.5972	1.65268	2020.0811
$\frac{3}{8}$	1.65110	2005.3604	1.65190	2012.8308	1.65271	2020.3152
$\frac{13}{32}$	1.65112	2005.5936	1.65193	2013.0645	1.65273	2020.5493
$\frac{7}{16}$	1.65115	2005.8268	1.65195	2013.2982	1.65276	2020.7834
$\frac{15}{32}$	1.65117	2006.0601	1.65198	2013.5319	1.65279	2021.0176
$\frac{1}{2}$	1.65120	2006.2934	1.65200	2013.7656	1.65281	2021.2517
$\frac{17}{32}$	1.65122	2006.5267	1.65203	2013.9994	1.65284	2021.4859
$\frac{9}{16}$	1.65125	2006.7600	1.65205	2014.2331	1.65286	2021.7201
$\frac{19}{32}$	1.65127	2006.9933	1.65208	2014.4669	1.65289	2021.9543
$\frac{5}{8}$	1.65130	2007.2267	1.65211	2014.7006	1.65291	2022.1885
$\frac{21}{32}$	1.65132	2007.4600	1.65213	2014.9344	1.65294	2022.4227
$\frac{11}{16}$	1.65135	2007.6934	1.65216	2015.1682	1.65296	2022.6569
$\frac{23}{32}$	1.65137	2007.9268	1.65218	2015.4020	1.65299	2022.8912
$\frac{3}{4}$	1.65140	2008.1602	1.65221	2015.6359	1.65301	2023.1254
$\frac{25}{32}$	1.65142	2008.3936	1.65223	2015.8697	1.65304	2023.3597
$\frac{13}{16}$	1.65145	2008.6270	1.65226	2016.1035	1.65306	2023.5940
$\frac{27}{32}$	1.65147	2008.8604	1.65228	2016.3374	1.65309	2023.8283
$\frac{7}{8}$	1.65150	2009.0939	1.65231	2016.5713	1.65311	2024.0626
$\frac{29}{32}$	1.65153	2009.3273	1.65233	2016.8052	1.65314	2024.2969
$\frac{15}{16}$	1.65155	2009.5608	1.65236	2017.0391	1.65316	2024.5313
$\frac{31}{32}$	1.65158	2009.7943	1.65238	2017.2730	1.65319	2024.7656
1	1.65160	2010.0278	1.65241	2017.5069	1.65321	2025.0000

45'

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.65321	2025.0000	1.65402	2032.5069	1.65482	2040.0278
$\frac{1}{32}$	1.65324	2025.2344	1.65404	2032.7418	1.65484	2040.2630
$\frac{1}{16}$	1.65326	2025.4688	1.65407	2032.9766	1.65487	2040.4983
$\frac{3}{32}$	1.65329	2025.7032	1.65409	2033.2114	1.65489	2040.7336
$\frac{1}{8}$	1.65331	2025.9376	1.65412	2033.4463	1.65492	2040.9689
$\frac{5}{32}$	1.65334	2026.1720	1.65414	2033.6812	1.65494	2041.2042
$\frac{3}{16}$	1.65336	2026.4065	1.65417	2033.9160	1.65497	2041.4395
$\frac{7}{32}$	1.65339	2026.6410	1.65419	2034.1509	1.65499	2041.6748
$\frac{1}{4}$	1.65341	2026.8754	1.65422	2034.3859	1.65502	2041.9102
$\frac{9}{32}$	1.65344	2027.1099	1.65424	2034.6208	1.65504	2042.1455
$\frac{5}{16}$	1.65346	2027.3444	1.65427	2034.8557	1.65507	2042.3809
$\frac{11}{32}$	1.65349	2027.5789	1.65429	2035.0907	1.65509	2042.6163
$\frac{3}{8}$	1.65351	2027.8135	1.65432	2035.3256	1.65512	2042.8517
$\frac{13}{32}$	1.65354	2028.0480	1.65434	2035.5606	1.65514	2043.0871
$\frac{7}{16}$	1.65356	2028.2826	1.65437	2035.7956	1.65517	2043.3225
$\frac{15}{32}$	1.65359	2028.5172	1.65439	2036.0306	1.65519	2043.5579
$\frac{1}{2}$	1.65361	2028.7517	1.65442	2036.2656	1.65522	2043.7934
$\frac{17}{32}$	1.65364	2028.9863	1.65444	2036.5007	1.65524	2044.0289
$\frac{9}{16}$	1.65366	2029.2209	1.65447	2036.7357	1.65527	2044.2644
$\frac{19}{32}$	1.65369	2029.4556	1.65449	2036.9708	1.65529	2044.4998
$\frac{5}{8}$	1.65371	2029.6902	1.65452	2037.2058	1.65532	2044.7354
$\frac{21}{32}$	1.65374	2029.9249	1.65454	2037.4409	1.65534	2044.9709
$\frac{11}{16}$	1.65377	2030.1595	1.65457	2037.6760	1.65537	2045.2064
$\frac{23}{32}$	1.65379	2030.3942	1.65459	2037.9111	1.65539	2045.4420
$\frac{3}{4}$	1.65382	2030.6289	1.65462	2038.1463	1.65542	2045.6775
$\frac{25}{32}$	1.65384	2030.8636	1.65464	2038.3814	1.65544	2045.9131
$\frac{13}{16}$	1.65387	2031.0983	1.65467	2038.6166	1.65547	2046.1487
$\frac{27}{32}$	1.65389	2031.3331	1.65469	2038.8517	1.65549	2046.3843
$\frac{7}{8}$	1.65392	2031.5678	1.65472	2039.0869	1.65552	2046.6199
$\frac{29}{32}$	1.65394	2031.8026	1.65474	2039.3221	1.65554	2046.8555
$\frac{15}{16}$	1.65397	2032.0374	1.65477	2039.5573	1.65557	2047.0912
$\frac{31}{32}$	1.65399	2032.2721	1.65479	2039.7925	1.65559	2047.3268
1	1.65402	2032.5069	1.65482	2040.0278	1.65562	2047.5625

45'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.65562	2047.5625	1.65642	2055.1111	1.65722	2062.6736
$\frac{1}{32}$	1.65564	2047.7982	1.65644	2055.3472	1.65724	2062.9102
$\frac{1}{16}$	1.65567	2048.0339	1.65647	2055.5834	1.65727	2063.1467
$\frac{3}{32}$	1.65569	2048.2696	1.65649	2055.8195	1.65729	2063.3833
$\frac{1}{8}$	1.65572	2048.5053	1.65652	2056.0557	1.65731	2063.6199
$\frac{5}{32}$	1.65574	2048.7411	1.65654	2056.2918	1.65734	2063.8565
$\frac{3}{16}$	1.65577	2048.9768	1.65657	2056.5280	1.65736	2064.0931
$\frac{7}{32}$	1.65579	2049.2126	1.65659	2056.7642	1.65739	2064.3298
$\frac{1}{4}$	1.65582	2049.4484	1.65662	2057.0004	1.65741	2064.5664
$\frac{9}{32}$	1.65584	2049.6841	1.65664	2057.2367	1.65744	2064.8031
$\frac{5}{16}$	1.65587	2049.9199	1.65667	2057.4729	1.65746	2065.0397
$\frac{11}{32}$	1.65589	2050.1558	1.65669	2057.7092	1.65749	2065.2764
$\frac{3}{8}$	1.65592	2050.3916	1.65672	2057.9454	1.65751	2065.5131
$\frac{13}{32}$	1.65594	2050.6274	1.65674	2058.1817	1.65754	2065.7498
$\frac{7}{16}$	1.65597	2050.8633	1.65677	2058.4180	1.65756	2065.9866
$\frac{15}{32}$	1.65599	2051.0992	1.65679	2058.6543	1.65759	2066.2233
$\frac{1}{2}$	1.65602	2051.3351	1.65682	2058.8906	1.65761	2066.4601
$\frac{17}{32}$	1.65604	2051.5710	1.65684	2059.1270	1.65764	2066.6968
$\frac{9}{16}$	1.65607	2051.8069	1.65687	2059.3633	1.65766	2066.9336
$\frac{19}{32}$	1.65609	2052.0428	1.65689	2059.5997	1.65769	2067.1704
$\frac{5}{8}$	1.65612	2052.2788	1.65692	2059.8360	1.65771	2067.4072
$\frac{21}{32}$	1.65614	2052.5147	1.65694	2060.0724	1.65774	2067.6440
$\frac{11}{16}$	1.65617	2052.7507	1.65697	2060.3088	1.65776	2067.8809
$\frac{23}{32}$	1.65619	2052.9867	1.65699	2060.5453	1.65779	2068.1177
$\frac{3}{4}$	1.65622	2053.2227	1.65702	2060.7817	1.65781	2068.3546
$\frac{25}{32}$	1.65624	2053.4587	1.65704	2061.0181	1.65784	2068.5915
$\frac{13}{16}$	1.65627	2053.6947	1.65707	2061.2546	1.65786	2068.8284
$\frac{27}{32}$	1.65629	2053.9307	1.65709	2061.4911	1.65789	2069.0653
$\frac{7}{8}$	1.65632	2054.1668	1.65712	2061.7275	1.65791	2069.3022
$\frac{29}{32}$	1.65634	2054.4028	1.65714	2061.9640	1.65794	2069.5391
$\frac{15}{16}$	1.65637	2054.6389	1.65717	2062.2005	1.65796	2069.7761
$\frac{31}{32}$	1.65639	2054.8750	1.65719	2062.4371	1.65799	2070.0130
1	1.65642	2055.1111	1.65722	2062.6736	1.65801	2070.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.65801	2070.2500	1.65881	2077.8403	1.65960	2085.4444
$\frac{1}{32}$	1.65804	2070.4870	1.65883	2078.0777	1.65962	2085.6823
$\frac{1}{16}$	1.65806	2070.7240	1.65886	2078.3151	1.65965	2085.9202
$\frac{3}{32}$	1.65809	2070.9610	1.65888	2078.5526	1.65967	2086.1580
$\frac{1}{8}$	1.65811	2071.1980	1.65891	2078.7900	1.65970	2086.3959
$\frac{5}{32}$	1.65814	2071.4351	1.65893	2079.0275	1.65972	2086.6338
$\frac{3}{16}$	1.65816	2071.6721	1.65895	2079.2650	1.65975	2086.8718
$\frac{7}{32}$	1.65819	2071.9092	1.65898	2079.5025	1.65977	2087.1097
$\frac{1}{4}$	1.65821	2072.1463	1.65900	2079.7400	1.65980	2087.3477
$\frac{9}{32}$	1.65824	2072.3834	1.65903	2079.9775	1.65982	2087.5856
$\frac{5}{16}$	1.65826	2072.6205	1.65905	2080.2151	1.65985	2087.8236
$\frac{11}{32}$	1.65828	2072.8576	1.65908	2080.4526	1.65987	2088.0616
$\frac{3}{8}$	1.65831	2073.0947	1.65910	2080.6902	1.65990	2088.2996
$\frac{13}{32}$	1.65833	2073.3319	1.65913	2080.9278	1.65992	2088.5376
$\frac{7}{16}$	1.65836	2073.5690	1.65915	2081.1654	1.65995	2088.7756
$\frac{15}{32}$	1.65838	2073.8062	1.65918	2081.4030	1.65997	2089.0137
$\frac{1}{2}$	1.65841	2074.0434	1.65920	2081.6406	1.66000	2089.2517
$\frac{17}{32}$	1.65843	2074.2806	1.65923	2081.8783	1.66002	2089.4898
$\frac{9}{16}$	1.65846	2074.5178	1.65925	2082.1159	1.66004	2089.7279
$\frac{19}{32}$	1.65848	2074.7551	1.65928	2082.3536	1.66007	2089.9660
$\frac{5}{8}$	1.65851	2074.9923	1.65930	2082.5913	1.66009	2090.2041
$\frac{21}{32}$	1.65853	2075.2296	1.65933	2082.8289	1.66012	2090.4422
$\frac{11}{16}$	1.65856	2075.4668	1.65935	2083.0667	1.66014	2090.6804
$\frac{23}{32}$	1.65858	2075.7041	1.65938	2083.3044	1.66017	2090.9185
$\frac{3}{4}$	1.65861	2075.9414	1.65940	2083.5421	1.66019	2091.1567
$\frac{25}{32}$	1.65863	2076.1787	1.65943	2083.7798	1.66022	2091.3949
$\frac{13}{16}$	1.65866	2076.4160	1.65945	2084.0176	1.66024	2091.6331
$\frac{27}{32}$	1.65868	2076.6534	1.95948	2084.2554	1.66027	2091.8713
$\frac{7}{8}$	1.65871	2076.8907	1.65950	2084.4932	1.66029	2092.1095
$\frac{29}{32}$	1.65873	2077.1281	1.65953	2084.7310	1.66032	2092.3477
$\frac{15}{16}$	1.65876	2077.3655	1.65955	2084.9688	1.66034	2092.5860
$\frac{31}{32}$	1.65878	2077.6029	1.65957	2085.2066	1.66037	2092.8242
1	1.65881	2077.8403	1.65960	2085.4444	1.66039	2093.0625

45'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66039	2093.0625	1.66118	2100.6944	1.66197	2108.3403
$\frac{1}{32}$	1.66042	2093.3008	1.66121	2100.9332	1.66199	2108.5794
$\frac{1}{16}$	1.66044	2093.5391	1.66123	2101.1719	1.66202	2108.8186
$\frac{3}{32}$	1.66047	2093.7774	1.66126	2101.4107	1.66204	2109.0578
$\frac{1}{8}$	1.66049	2094.0157	1.66128	2101.6494	1.66207	2109.2970
$\frac{5}{32}$	1.66051	2094.2541	1.66130	2101.8882	1.66209	2109.5362
$\frac{3}{16}$	1.66054	2094.4924	1.66133	2102.1270	1.66212	2109.7754
$\frac{7}{32}$	1.66056	2094.7308	1.66135	2102.3658	1.66214	2110.0147
$\frac{1}{4}$	1.66059	2094.9692	1.66138	2102.6046	1.66217	2110.2539
$\frac{9}{32}$	1.66061	2095.2076	1.66140	2102.8434	1.66219	2110.4932
$\frac{5}{16}$	1.66064	2095.4460	1.66143	2103.0823	1.66222	2110.7324
$1\frac{1}{32}$	1.66066	2095.6844	1.66145	2103.3211	1.66224	2110.9717
$\frac{3}{8}$	1.66069	2095.9229	1.66148	2103.5600	1.66227	2111.2110
$1\frac{3}{32}$	1.66071	2096.1613	1.66150	2103.7989	1.66229	2111.4504
$\frac{7}{16}$	1.66074	2096.3998	1.66153	2104.0378	1.66232	2111.6897
$1\frac{5}{32}$	1.66076	2096.6382	1.66155	2104.2767	1.66234	2111.9290
$\frac{1}{2}$	1.66079	2096.8767	1.66158	2104.5156	1.66236	2112.1684
$1\frac{7}{32}$	1.66081	2097.1152	1.66160	2104.7546	1.66239	2112.4078
$\frac{9}{16}$	1.66084	2097.3538	1.66163	2104.9935	1.66241	2112.6472
$1\frac{9}{32}$	1.66086	2097.5923	1.66165	2105.2325	1.66244	2112.8866
$\frac{5}{8}$	1.66089	2097.8308	1.66167	2105.4715	1.66246	2113.1260
$2\frac{1}{32}$	1.66091	2098.0694	1.66170	2105.7105	1.66249	2113.3654
$1\frac{1}{16}$	1.66093	2098.3080	1.66172	2105.9495	1.66251	2113.6048
$2\frac{3}{32}$	1.66096	2098.5466	1.66175	2106.1885	1.66254	2113.8443
$\frac{3}{4}$	1.66098	2098.7852	1.66177	2106.4275	1.66256	2114.0838
$2\frac{5}{32}$	1.66101	2099.0238	1.66180	2106.6666	1.66259	2114.3232
$1\frac{3}{16}$	1.66103	2099.2624	1.66182	2106.9056	1.66261	2114.5627
$2\frac{7}{32}$	1.66106	2099.5010	1.66185	2107.1447	1.66263	2114.8023
$\frac{7}{8}$	1.66108	2099.7397	1.66187	2107.3838	1.66266	2115.0418
$2\frac{9}{32}$	1.66111	2099.9784	1.66190	2107.6229	1.66268	2115.2813
$1\frac{5}{16}$	1.66113	2100.2170	1.66192	2107.8620	1.66271	2115.5209
$2\frac{1}{16}$	1.66116	2100.4557	1.66195	2108.1011	1.66273	2115.7604
1	1.66118	2100.6944	1.66197	2108.3403	1.66276	2116.0000

46'

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66276	2116.0000	1.66354	2123.6736	1.66433	2131.3611
$\frac{1}{32}$	1.66278	2116.2396	1.66357	2123.9136	1.66435	2131.6016
$\frac{1}{16}$	1.66281	2116.4792	1.66359	2124.1537	1.66438	2131.8420
$\frac{3}{32}$	1.66283	2116.7188	1.66362	2124.3937	1.66440	2132.0825
$\frac{1}{8}$	1.66286	2116.9584	1.66364	2124.6338	1.66443	2132.3230
$\frac{5}{32}$	1.66288	2117.1981	1.66367	2124.8739	1.66445	2132.5635
$\frac{3}{16}$	1.66291	2117.4377	1.66369	2125.1140	1.66448	2132.8041
$\frac{7}{32}$	1.66293	2117.6774	1.66372	2125.3541	1.66450	2133.0446
$\frac{1}{4}$	1.66295	2117.9171	1.66374	2125.5942	1.66452	2133.2852
$\frac{9}{32}$	1.66298	2118.1568	1.66376	2125.8343	1.66455	2133.5257
$\frac{5}{16}$	1.66300	2118.3965	1.66379	2126.0745	1.66457	2133.7663
$\frac{11}{32}$	1.66303	2118.6362	1.66381	2126.3146	1.66460	2134.0069
$\frac{3}{8}$	1.66305	2118.8760	1.66384	2126.5548	1.66462	2134.2475
$\frac{13}{32}$	1.66308	2119.1157	1.66386	2126.7950	1.66465	2134.4881
$\frac{7}{16}$	1.66310	2119.3555	1.66389	2127.0352	1.66467	2134.7288
$\frac{15}{32}$	1.66313	2119.5953	1.66391	2127.2754	1.66470	2134.9694
$\frac{1}{2}$	1.66315	2119.8351	1.66394	2127.5156	1.66472	2135.2101
$\frac{17}{32}$	1.66318	2120.0749	1.66396	2127.7559	1.66474	2135.4507
$\frac{9}{16}$	1.66320	2120.3147	1.66399	2127.9961	1.66477	2135.6914
$\frac{19}{32}$	1.66322	2120.5545	1.66401	2128.2364	1.66479	2135.9321
$\frac{5}{8}$	1.66325	2120.7944	1.66403	2128.4767	1.66482	2136.1729
$\frac{21}{32}$	1.66327	2121.0342	1.66406	2128.7170	1.66484	2136.4136
$\frac{11}{16}$	1.66330	2121.2741	1.66408	2128.9573	1.66487	2136.6543
$\frac{23}{32}$	1.66332	2121.5140	1.66411	2129.1976	1.66489	2136.8951
$\frac{3}{4}$	1.66335	2121.7539	1.66413	2129.4379	1.66492	2137.1359
$\frac{25}{32}$	1.66337	2121.9938	1.66416	2129.6783	1.66494	2137.3766
$\frac{13}{16}$	1.66340	2122.2338	1.66418	2129.9186	1.66496	2137.6174
$\frac{27}{32}$	1.66342	2122.4737	1.66421	2130.1590	1.66499	2137.8582
$\frac{7}{8}$	1.66345	2122.7136	1.66423	2130.3994	1.66501	2138.0991
$\frac{29}{32}$	1.66347	2122.9536	1.66426	2130.6398	1.66504	2138.3399
$\frac{15}{16}$	1.66349	2123.1936	1.66428	2130.8802	1.66506	2138.5808
$\frac{31}{32}$	1.66352	2123.4336	1.66430	2131.1207	1.66509	2138.8216
1	1.66354	2123.6736	1.66433	2131.3611	1.66511	2139.0625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66511	2139.0625	1.66589	2146.7778	1.66667	2154.5069
$\frac{1}{32}$	1.66514	2139.3034	1.66592	2147.0191	1.66670	2154.7487
$\frac{1}{16}$	1.66516	2139.5443	1.66594	2147.2604	1.66672	2154.9905
$\frac{3}{32}$	1.66519	2139.7852	1.66597	2147.5018	1.66675	2155.2323
$\frac{1}{8}$	1.66521	2140.0262	1.66599	2147.7432	1.66677	2155.4741
$\frac{5}{32}$	1.66523	2140.2671	1.66602	2147.9845	1.66680	2155.7159
$\frac{3}{16}$	1.66526	2140.5081	1.66604	2148.2259	1.66682	2155.9577
$\frac{7}{32}$	1.66528	2140.7490	1.66606	2148.4673	1.66684	2156.1996
$\frac{1}{4}$	1.66531	2140.9900	1.66609	2148.7088	1.66687	2156.4414
$\frac{9}{32}$	1.66533	2141.2310	1.66611	2148.9502	1.66689	2156.6833
$\frac{5}{16}$	1.66536	2141.4720	1.66614	2149.1917	1.66692	2156.9252
$\frac{11}{32}$	1.66538	2141.7131	1.66616	2149.4331	1.66694	2157.1671
$\frac{3}{8}$	1.66541	2141.9541	1.66619	2149.6746	1.66697	2157.4090
$\frac{13}{32}$	1.66543	2142.1952	1.66621	2149.9161	1.66699	2157.6509
$\frac{7}{16}$	1.66545	2142.4362	1.66624	2150.1576	1.66701	2157.8928
$\frac{15}{32}$	1.66548	2142.6773	1.66626	2150.3991	1.66704	2158.1348
$\frac{1}{2}$	1.66550	2142.9184	1.66628	2150.6406	1.66706	2158.3767
$\frac{17}{32}$	1.66553	2143.1595	1.66631	2150.8822	1.66709	2158.6187
$\frac{9}{16}$	1.66555	2143.4006	1.66633	2151.1237	1.66711	2158.8607
$\frac{19}{32}$	1.66558	2143.6418	1.66636	2151.3653	1.66714	2159.1027
$\frac{5}{8}$	1.66560	2143.8829	1.66638	2151.6069	1.66716	2159.3447
$\frac{21}{32}$	1.66562	2144.1241	1.66641	2151.8485	1.66719	2159.5868
$\frac{11}{16}$	1.66565	2144.3653	1.66643	2152.0901	1.66721	2159.8288
$\frac{23}{32}$	1.66567	2144.6065	1.66645	2152.3317	1.66723	2160.0709
$\frac{3}{4}$	1.66570	2144.8477	1.66648	2152.5734	1.66726	2160.3129
$\frac{25}{32}$	1.66572	2145.0889	1.66650	2152.8150	1.66728	2160.5550
$\frac{13}{16}$	1.66575	2145.3301	1.66653	2153.0567	1.66731	2160.7971
$\frac{27}{32}$	1.66577	2145.5713	1.66655	2153.2983	1.66733	2161.0392
$\frac{7}{8}$	1.66580	2145.8126	1.66658	2153.5400	1.66736	2161.2814
$\frac{29}{32}$	1.66582	2146.0539	1.66660	2153.7817	1.66738	2161.5235
$\frac{15}{16}$	1.66584	2146.2952	1.66663	2154.0235	1.66740	2161.7657
$\frac{31}{32}$	1.66587	2146.5365	1.66665	2154.2652	1.66743	2162.0078
1	1.66589	2146.7778	1.66667	2154.5069	1.66745	2162.2500

Distance of an Arch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66276	2116.0000	1.66354	2123.6736	1.66433	2131.3611
$\frac{1}{100}$	1.66278	2116.2306	1.66357	2123.9136	1.66435	2131.6016
$\frac{2}{100}$	1.66281	2116.4792	1.66359	2124.1537	1.66438	2131.8420
$\frac{3}{100}$	1.66283	2116.7198	1.66362	2124.3937	1.66440	2132.0825
$\frac{4}{100}$	1.66286	2116.9684	1.66364	2124.6338	1.66443	2132.3230
$\frac{5}{100}$	1.66288	2117.1981	1.66367	2124.8739	1.66445	2132.5635
$\frac{6}{100}$	1.66291	2117.4377	1.66369	2125.1140	1.66448	2132.8041
$\frac{7}{100}$	1.66293	2117.6774	1.66372	2125.3541	1.66450	2133.0446
$\frac{8}{100}$	1.66296	2117.9171	1.66374	2125.5942	1.66452	2133.2852
$\frac{9}{100}$	1.66298	2118.1568	1.66376	2125.8343	1.66455	2133.5257
$\frac{1}{100}$	1.66300	2118.3965	1.66379	2126.0745	1.66457	2133.7663
$\frac{2}{100}$	1.66303	2118.6392	1.66381	2126.3146	1.66460	2134.0069
$\frac{3}{100}$	1.66305	2118.8760	1.66384	2126.5548	1.66462	2134.2475
$\frac{4}{100}$	1.66308	2119.1157	1.66386	2126.7950	1.66465	2134.4881
$\frac{5}{100}$	1.66310	2119.3555	1.66389	2127.0352	1.66467	2134.7288
$\frac{6}{100}$	1.66313	2119.5953	1.66391	2127.2754	1.66470	2134.9694
$\frac{7}{100}$	1.66315	2119.8351	1.66394	2127.5156	1.66472	2135.2101
$\frac{8}{100}$	1.66318	2120.0749	1.66396	2127.7559	1.66474	2135.4507
$\frac{9}{100}$	1.66320	2120.3147	1.66399	2127.9961	1.66477	2135.6914
$\frac{1}{100}$	1.66322	2120.5545	1.66401	2128.2364	1.66479	2135.9321
$\frac{2}{100}$	1.66325	2120.7944	1.66403	2128.4767	1.66482	2136.1729
$\frac{3}{100}$	1.66327	2121.0342	1.66406	2128.7170	1.66484	2136.4136
$\frac{4}{100}$	1.66330	2121.2741	1.66408	2128.9573	1.66487	2136.6543
$\frac{5}{100}$	1.66332	2121.5140	1.66411	2129.1976	1.66489	2136.8951
$\frac{6}{100}$	1.66335	2121.7539	1.66413	2129.4379	1.66492	2137.1359
$\frac{7}{100}$	1.66337	2121.9938	1.66416	2129.6783	1.66494	2137.3766
$\frac{8}{100}$	1.66340	2122.2338	1.66418	2129.9186	1.66496	2137.6174
$\frac{9}{100}$	1.66343	2122.4737	1.66421	2130.1590	1.66499	2137.8582
$\frac{1}{100}$	1.66345	2122.7136	1.66423	2130.3994	1.66501	2138.0991
$\frac{2}{100}$	1.66347	2122.9536	1.66426	2130.6398	1.66504	2138.3399
$\frac{3}{100}$	1.66349	2123.1936	1.66428	2130.8802	1.66506	2138.5808
$\frac{4}{100}$	1.66352	2123.4336	1.66430	2131.1207	1.66509	2138.8216
$\frac{5}{100}$	1.66354	2123.6736	1.66433	2131.3611	1.66511	2139.0625

46'

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66511	2139.0625	1.66589	2146.7778	1.66667	2154.5069
$\frac{1}{32}$	1.66514	2139.3034	1.66592	2147.0191	1.66670	2154.7487
$\frac{1}{16}$	1.66516	2139.5443	1.66594	2147.2604	1.66672	2154.9905
$\frac{3}{32}$	1.66519	2139.7852	1.66597	2147.5018	1.66675	2155.2323
$\frac{1}{8}$	1.66521	2140.0262	1.66599	2147.7432	1.66677	2155.4741
$\frac{5}{32}$	1.66523	2140.2671	1.66602	2147.9845	1.66680	2155.7159
$\frac{3}{16}$	1.66526	2140.5081	1.66604	2148.2259	1.66682	2155.9577
$\frac{7}{32}$	1.66528	2140.7490	1.66606	2148.4673	1.66684	2156.1996
$\frac{1}{4}$	1.66531	2140.9900	1.66609	2148.7088	1.66687	2156.4414
$\frac{9}{32}$	1.66533	2141.2310	1.66611	2148.9502	1.66689	2156.6833
$\frac{5}{16}$	1.66536	2141.4720	1.66614	2149.1917	1.66692	2156.9252
$\frac{11}{32}$	1.66538	2141.7131	1.66616	2149.4331	1.66694	2157.1671
$\frac{3}{8}$	1.66541	2141.9541	1.66619	2149.6746	1.66697	2157.4090
$\frac{13}{32}$	1.66543	2142.1952	1.66621	2149.9161	1.66699	2157.6509
$\frac{7}{16}$	1.66545	2142.4362	1.66624	2150.1576	1.66701	2157.8928
$\frac{15}{32}$	1.66548	2142.6773	1.66626	2150.3991	1.66704	2158.1348
$\frac{1}{2}$	1.66550	2142.9184	1.66628	2150.6406	1.66706	2158.3767
$\frac{17}{32}$	1.66553	2143.1595	1.66631	2150.8822	1.66709	2158.6187
$\frac{9}{16}$	1.66555	2143.4006	1.66633	2151.1237	1.66711	2158.8607
$\frac{19}{32}$	1.66558	2143.6418	1.66636	2151.3653	1.66714	2159.1027
$\frac{5}{8}$	1.66560	2143.8829	1.66638	2151.6069	1.66716	2159.3447
$\frac{21}{32}$	1.66562	2144.1241	1.66641	2151.8485	1.66719	2159.5868
$\frac{11}{16}$	1.66565	2144.3653	1.66643	2152.0901	1.66721	2159.8288
$\frac{23}{32}$	1.66567	2144.6065	1.66645	2152.3317	1.66723	2160.0709
$\frac{3}{4}$	1.66570	2144.8477	1.66648	2152.5734	1.66726	2160.3129
$\frac{25}{32}$	1.66572	2145.0889	1.66650	2152.8150	1.66728	2160.5550
$\frac{13}{16}$	1.66575	2145.3301	1.66653	2153.0567	1.66731	2160.7971
$\frac{27}{32}$	1.66577	2145.5713	1.66655	2153.2983	1.66733	2161.0392
$\frac{7}{8}$	1.66580	2145.8126	1.66658	2153.5400	1.66736	2161.2814
$\frac{29}{32}$	1.66582	2146.0539	1.66660	2153.7817	1.66738	2161.5235
$\frac{15}{16}$	1.66584	2146.2952	1.66663	2154.0235	1.66740	2161.7657
$\frac{31}{32}$	1.66587	2146.5365	1.66665	2154.2652	1.66743	2162.0078
1	1.66589	2146.7778	1.66667	2154.5069	1.66745	2162.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66745	2162.2500	1.66823	2170.0069	1.66901	2177.7778
$\frac{1}{32}$	1.66748	2162.4922	1.66825	2170.2496	1.66903	2178.0208
$\frac{1}{16}$	1.66750	2162.7344	1.66828	2170.4922	1.66906	2178.2639
$\frac{3}{32}$	1.66753	2162.9766	1.66830	2170.7349	1.66908	2178.5070
$\frac{1}{8}$	1.66755	2163.2189	1.66833	2170.9775	1.66910	2178.7501
$\frac{5}{32}$	1.66757	2163.4611	1.66835	2171.2202	1.66913	2178.9932
$\frac{3}{16}$	1.66760	2163.7034	1.66838	2171.4629	1.66915	2179.2364
$\frac{7}{32}$	1.66762	2163.9456	1.66840	2171.7056	1.66918	2179.4795
$\frac{1}{4}$	1.66765	2164.1879	1.66842	2171.9484	1.66920	2179.7227
$\frac{9}{32}$	1.66767	2164.4302	1.66845	2172.1911	1.66922	2179.9658
$\frac{5}{16}$	1.66770	2164.6726	1.66847	2172.4338	1.66925	2180.2090
$1\frac{1}{32}$	1.66772	2164.9149	1.66850	2172.6766	1.66927	2180.4522
$\frac{3}{8}$	1.66774	2165.1572	1.66852	2172.9194	1.66930	2180.6954
$1\frac{3}{32}$	1.66777	2165.3996	1.66855	2173.1622	1.66932	2180.9386
$\frac{7}{16}$	1.66779	2165.6420	1.66857	2173.4050	1.66935	2181.1819
$1\frac{5}{32}$	1.66782	2165.8843	1.66859	2173.6478	1.66937	2181.4251
$\frac{1}{2}$	1.66784	2166.1267	1.66862	2173.8906	1.66939	2181.6684
$1\frac{7}{32}$	1.66787	2166.3691	1.66864	2174.1335	1.66942	2181.9117
$\frac{9}{16}$	1.66789	2166.6116	1.66867	2174.3763	1.66944	2182.1550
$1\frac{9}{32}$	1.66791	2166.8540	1.66869	2174.6192	1.66947	2182.3983
$\frac{5}{8}$	1.66794	2167.0965	1.66872	2174.8621	1.66949	2182.6416
$2\frac{1}{32}$	1.66796	2167.3389	1.66874	2175.1050	1.66952	2182.8849
$1\frac{1}{16}$	1.66799	2167.5814	1.66876	2175.3479	1.66954	2183.1283
$2\frac{3}{32}$	1.66801	2167.8239	1.66879	2175.5908	1.66956	2183.3716
$\frac{3}{4}$	1.66804	2168.0664	1.66881	2175.8338	1.66959	2183.6150
$2\frac{5}{32}$	1.66806	2168.3089	1.66884	2176.0767	1.66961	2183.8584
$1\frac{3}{16}$	1.66808	2168.5515	1.66886	2176.3197	1.66964	2184.1018
$2\frac{7}{32}$	1.66811	2168.7940	1.66889	2176.5627	1.66966	2184.3452
$\frac{7}{8}$	1.66813	2169.0366	1.66891	2176.8057	1.66968	2184.5887
$2\frac{9}{32}$	1.66816	2169.2791	1.66893	2177.0487	1.66971	2184.8321
$1\frac{5}{16}$	1.66818	2169.5217	1.66896	2177.2917	1.66973	2185.0755
$3\frac{1}{32}$	1.66821	2169.7643	1.66898	2177.5347	1.66976	2185.3190
1	1.66823	2170.0069	1.66901	2177.7778	1.66978	2185.5625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.66978	2185.5625	1.67056	2193.3611	1.67133	2201.1736
$\frac{1}{32}$	1.66981	2185.8060	1.67058	2193.6050	1.67135	2201.4180
$\frac{1}{16}$	1.66983	2186.0495	1.67060	2193.8490	1.67138	2201.6624
$\frac{3}{32}$	1.66985	2186.2930	1.67063	2194.0929	1.67140	2201.9067
$\frac{1}{8}$	1.66988	2186.5366	1.67065	2194.3369	1.67142	2202.1512
$\frac{5}{32}$	1.66990	2186.7801	1.67068	2194.5809	1.67145	2202.3956
$\frac{3}{16}$	1.66993	2187.0237	1.67070	2194.8249	1.67147	2202.6400
$\frac{7}{32}$	1.66995	2187.2673	1.67072	2195.0689	1.67150	2202.8844
$\frac{1}{4}$	1.66998	2187.5109	1.67075	2195.3129	1.67152	2203.1289
$\frac{9}{32}$	1.67000	2187.7545	1.67077	2195.5570	1.67154	2203.3734
$\frac{5}{16}$	1.67002	2187.9981	1.67080	2195.8010	1.67157	2203.6179
$\frac{11}{32}$	1.67005	2188.2417	1.67082	2196.0451	1.67159	2203.8624
$\frac{3}{8}$	1.67007	2188.4854	1.67084	2196.2892	1.67162	2204.1069
$\frac{13}{32}$	1.67010	2188.7290	1.67087	2196.5333	1.67164	2204.3514
$\frac{7}{16}$	1.67012	2188.9727	1.67089	2196.7774	1.67166	2204.5959
$\frac{15}{32}$	1.67014	2189.2164	1.67092	2197.0215	1.67169	2204.8405
$\frac{1}{2}$	1.67017	2189.4601	1.67094	2197.2656	1.67171	2205.0851
$\frac{17}{32}$	1.67019	2189.7038	1.67097	2197.5098	1.67174	2205.3297
$\frac{9}{16}$	1.67022	2189.9475	1.67099	2197.7539	1.67176	2205.5742
$\frac{19}{32}$	1.67024	2190.1913	1.67101	2197.9981	1.67178	2205.8189
$\frac{5}{8}$	1.67027	2190.4350	1.67104	2198.2423	1.67181	2206.0635
$\frac{21}{32}$	1.67029	2190.6788	1.67106	2198.4865	1.67183	2206.3081
$\frac{11}{16}$	1.67031	2190.9226	1.67109	2198.7307	1.67186	2206.5528
$\frac{23}{32}$	1.67034	2191.1663	1.67111	2198.9749	1.67188	2206.7974
$\frac{3}{4}$	1.67036	2191.4102	1.67113	2199.2192	1.67191	2207.0421
$\frac{25}{32}$	1.67039	2191.6540	1.67116	2199.4634	1.67193	2207.2868
$\frac{13}{16}$	1.67041	2191.8978	1.67118	2199.7077	1.67195	2207.5315
$\frac{27}{32}$	1.67043	2192.1417	1.67121	2199.9520	1.67198	2207.7762
$\frac{7}{8}$	1.67046	2192.3855	1.67123	2200.1963	1.67200	2208.0209
$\frac{29}{32}$	1.67048	2192.6294	1.67125	2200.4406	1.67203	2208.2657
$\frac{15}{16}$	1.67051	2192.8733	1.67128	2200.6849	1.67205	2208.5104
$\frac{31}{32}$	1.67053	2193.1172	1.67130	2200.9293	1.67207	2208.7552
1	1.67056	2193.3611	1.67133	2201.1736	1.67210	2209.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.67210	2209.0000	1.67287	2216.8403	1.67364	2224.6944
$\frac{1}{32}$	1.67212	2209.2448	1.67289	2217.0855	1.67366	2224.9401
$\frac{1}{16}$	1.67215	2209.4896	1.67292	2217.3308	1.67368	2225.1858
$\frac{3}{32}$	1.67217	2209.7344	1.67294	2217.5760	1.67371	2225.4315
$\frac{1}{8}$	1.67219	2209.9793	1.67296	2217.8213	1.67373	2225.6772
$\frac{5}{32}$	1.67222	2210.2241	1.67299	2218.0666	1.67376	2225.9229
$\frac{3}{16}$	1.67224	2210.4690	1.67301	2218.3119	1.67378	2226.1686
$\frac{7}{32}$	1.67227	2210.7139	1.67304	2218.5572	1.67380	2226.4144
$\frac{1}{4}$	1.67229	2210.9588	1.67306	2218.8025	1.67383	2226.6602
$\frac{9}{32}$	1.67231	2211.2037	1.67308	2219.0479	1.67385	2226.9059
$\frac{5}{16}$	1.67234	2211.4486	1.67311	2219.2932	1.67387	2227.1517
$\frac{11}{32}$	1.67236	2211.6935	1.67313	2219.5386	1.67390	2227.3975
$\frac{3}{8}$	1.67239	2211.9385	1.67316	2219.7840	1.67392	2227.6433
$\frac{13}{32}$	1.67241	2212.1834	1.67318	2220.0294	1.67395	2227.8892
$\frac{7}{16}$	1.67243	2212.4284	1.67320	2220.2748	1.67397	2228.1350
$\frac{15}{32}$	1.67246	2212.6734	1.67323	2220.5202	1.67399	2228.3809
$\frac{1}{2}$	1.67248	2212.9184	1.67325	2220.7656	1.67402	2228.6267
$\frac{17}{32}$	1.67251	2213.1634	1.67328	2221.0111	1.67404	2228.8726
$\frac{9}{16}$	1.67253	2213.4084	1.67330	2221.2565	1.67407	2229.1185
$\frac{19}{32}$	1.67255	2213.6535	1.67332	2221.5020	1.67409	2229.3644
$\frac{5}{8}$	1.67258	2213.8985	1.67335	2221.7475	1.67411	2229.6104
$\frac{21}{32}$	1.67260	2214.1436	1.67337	2221.9930	1.67414	2229.8563
$\frac{11}{16}$	1.67263	2214.3887	1.67340	2222.2385	1.67416	2230.1022
$\frac{23}{32}$	1.67265	2214.6338	1.67342	2222.4841	1.67419	2230.3482
$\frac{3}{4}$	1.67267	2214.8789	1.67344	2222.7296	1.67421	2230.5942
$\frac{25}{32}$	1.67270	2215.1240	1.67347	2222.9752	1.67423	2230.8402
$\frac{13}{16}$	1.67272	2215.3692	1.67349	2223.2207	1.67426	2231.0862
$\frac{27}{32}$	1.67275	2215.6143	1.67352	2223.4663	1.67428	2231.3322
$\frac{7}{8}$	1.67277	2215.8595	1.67354	2223.7119	1.67431	2231.5782
$\frac{29}{32}$	1.67280	2216.1047	1.67356	2223.9575	1.67433	2231.8243
$\frac{15}{16}$	1.67282	2216.3499	1.67359	2224.2032	1.67435	2232.0703
$\frac{31}{32}$	1.67284	2216.5951	1.67361	2224.4488	1.67438	2232.3164
1	1.67287	2216.8403	1.67364	2224.6944	1.67440	2232.5625

Fractions of an inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.67440	2232.5625	1.67517	2240.4444	1.67593	2248.3403
$\frac{1}{32}$	1.67443	2232.8086	1.67519	2240.6910	1.67595	2248.5872
$\frac{1}{16}$	1.67445	2233.0547	1.67521	2240.9375	1.67598	2248.8342
$\frac{3}{32}$	1.67447	2233.3008	1.67524	2241.1841	1.67600	2249.0812
$\frac{1}{8}$	1.67450	2233.5470	1.67526	2241.4307	1.67603	2249.3282
$\frac{5}{32}$	1.67452	2233.7931	1.67529	2241.6773	1.67605	2249.5753
$\frac{3}{16}$	1.67455	2234.0393	1.67531	2241.9239	1.67607	2249.8223
$\frac{7}{32}$	1.67457	2234.2855	1.67533	2242.1705	1.67610	2250.0693
$\frac{1}{4}$	1.67459	2234.5317	1.67536	2242.4171	1.67612	2250.3164
$\frac{9}{32}$	1.67462	2234.7779	1.67538	2242.6637	1.67615	2250.5635
$\frac{5}{16}$	1.67464	2235.0241	1.67541	2242.9104	1.67617	2250.8106
$1\frac{1}{32}$	1.67467	2235.2704	1.67543	2243.1571	1.67619	2251.0577
$\frac{3}{8}$	1.67469	2235.5166	1.67545	2243.4038	1.67622	2251.3048
$1\frac{3}{32}$	1.67471	2235.7629	1.67548	2243.6505	1.67624	2251.5519
$\frac{7}{16}$	1.67474	2236.0091	1.67550	2243.8972	1.67626	2251.7991
$1\frac{5}{32}$	1.67476	2236.2554	1.67553	2244.1439	1.67629	2252.0462
$\frac{1}{2}$	1.67478	2236.5017	1.67555	2244.3906	1.67631	2252.2934
$1\frac{7}{32}$	1.67481	2236.7481	1.67557	2244.6374	1.67634	2252.5406
$\frac{9}{16}$	1.67483	2236.9944	1.67560	2244.8841	1.67636	2252.7878
$1\frac{9}{32}$	1.67486	2237.2407	1.67562	2245.1309	1.67638	2253.0350
$\frac{5}{8}$	1.67488	2237.4871	1.67564	2245.3777	1.67641	2253.2822
$2\frac{1}{32}$	1.67490	2237.7335	1.67567	2245.6245	1.67643	2253.5295
$1\frac{11}{16}$	1.67493	2237.9798	1.67569	2245.8713	1.67646	2253.7767
$2\frac{3}{32}$	1.67495	2238.2262	1.67572	2246.1182	1.67648	2254.0240
$\frac{3}{4}$	1.67498	2238.4727	1.67574	2246.3650	1.67650	2254.2713
$2\frac{5}{32}$	1.67500	2238.7191	1.67576	2246.6119	1.67653	2254.5186
$1\frac{13}{16}$	1.67502	2238.9655	1.67579	2246.8588	1.67655	2254.7659
$2\frac{7}{32}$	1.67505	2239.2120	1.67581	2247.1056	1.67657	2255.0132
$\frac{7}{8}$	1.67507	2239.4584	1.67584	2247.3525	1.67660	2255.2605
$2\frac{9}{32}$	1.67510	2239.7049	1.67586	2247.5995	1.67662	2255.5079
$1\frac{15}{16}$	1.67512	2239.9514	1.67588	2247.8464	1.67665	2255.7552
$3\frac{1}{32}$	1.67514	2240.1979	1.67591	2248.0933	1.67667	2256.0026
1	1.67517	2240.4444	1.67593	2248.3403	1.67669	2256.2500

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.67669	2256.2500	1.67745	2264.1736	1.67821	2272.1111
$\frac{1}{32}$	1.67672	2256.4974	1.67748	2264.4214	1.67824	2272.3594
$\frac{1}{16}$	1.67674	2256.7448	1.67750	2264.6693	1.67826	2272.6077
$\frac{3}{32}$	1.67677	2256.9922	1.67753	2264.9172	1.67829	2272.8560
$\frac{1}{8}$	1.67679	2257.2397	1.67755	2265.1650	1.67831	2273.1043
$\frac{5}{32}$	1.67681	2257.4871	1.67757	2265.4129	1.67833	2273.3526
$\frac{3}{16}$	1.67684	2257.7346	1.67760	2265.6608	1.67836	2273.6009
$\frac{7}{32}$	1.67686	2257.9821	1.67762	2265.9088	1.67838	2273.8493
$\frac{1}{4}$	1.67688	2258.2296	1.67764	2266.1567	1.67840	2274.0977
$\frac{9}{32}$	1.67691	2258.4771	1.67767	2266.4046	1.67843	2274.3460
$\frac{5}{16}$	1.67693	2258.7246	1.67769	2266.6526	1.67845	2274.5944
$\frac{11}{32}$	1.67696	2258.9722	1.67772	2266.9006	1.67848	2274.8428
$\frac{3}{8}$	1.67698	2259.2197	1.67774	2267.1485	1.67850	2275.0913
$\frac{13}{32}$	1.67700	2259.4673	1.67776	2267.3965	1.67852	2275.3397
$\frac{7}{16}$	1.67703	2259.7149	1.67779	2267.6446	1.67855	2275.5881
$\frac{15}{32}$	1.67705	2259.9625	1.67781	2267.8926	1.67857	2275.8366
$\frac{1}{2}$	1.67707	2260.2101	1.67783	2268.1406	1.67859	2276.0851
$\frac{17}{32}$	1.67710	2260.4577	1.67786	2268.3887	1.67862	2276.3336
$\frac{9}{16}$	1.67712	2260.7053	1.67788	2268.6367	1.67864	2276.5821
$\frac{19}{32}$	1.67715	2260.9530	1.67791	2268.8848	1.67867	2276.8306
$\frac{5}{8}$	1.67717	2261.2006	1.67793	2269.1329	1.67869	2277.0791
$\frac{21}{32}$	1.67719	2261.4483	1.67795	2269.3810	1.67871	2277.3276
$\frac{11}{16}$	1.67722	2261.6960	1.67798	2269.6292	1.67874	2277.5762
$\frac{23}{32}$	1.67724	2261.9437	1.67800	2269.8773	1.67876	2277.8248
$\frac{3}{4}$	1.67726	2262.1914	1.67802	2270.1254	1.67878	2278.0734
$\frac{25}{32}$	1.67729	2262.4391	1.67805	2270.3736	1.67881	2278.3219
$\frac{13}{16}$	1.67731	2262.6869	1.67807	2270.6218	1.67883	2278.5706
$\frac{27}{32}$	1.67734	2262.9346	1.67810	2270.8700	1.67885	2278.8192
$\frac{7}{8}$	1.67736	2263.1824	1.67812	2271.1182	1.67888	2279.0678
$\frac{29}{32}$	1.67738	2263.4302	1.67814	2271.3664	1.67890	2279.3165
$\frac{15}{16}$	1.67741	2263.6780	1.67817	2271.6146	1.67893	2279.5651
$\frac{31}{32}$	1.67743	2263.9258	1.67819	2271.8629	1.67895	2279.8138
1	1.67745	2264.1736	1.67821	2272.1111	1.67897	2280.0625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.67897	2280.0625	1.67973	2288.0278	1.68049	2296.0069
$\frac{1}{32}$	1.67900	2280.3112	1.67975	2288.2769	1.68051	2296.2565
$\frac{1}{16}$	1.67902	2280.5599	1.67978	2288.5261	1.68053	2296.5061
$\frac{3}{32}$	1.67904	2280.8087	1.67980	2288.7752	1.68056	2296.7557
$\frac{1}{8}$	1.67907	2281.0574	1.67983	2289.0244	1.68058	2297.0053
$\frac{5}{32}$	1.67909	2281.3062	1.67985	2289.2736	1.68060	2297.2549
$\frac{3}{16}$	1.67912	2281.5549	1.67987	2289.5228	1.68063	2297.5046
$\frac{7}{32}$	1.67914	2281.8037	1.67990	2289.7720	1.68065	2297.7542
$\frac{1}{4}$	1.67916	2282.0525	1.67992	2290.0213	1.68068	2298.0039
$\frac{9}{32}$	1.67919	2282.3013	1.67994	2290.2705	1.68070	2298.2536
$\frac{5}{16}$	1.67921	2282.5502	1.67997	2290.5198	1.68072	2298.5033
$1\frac{1}{32}$	1.67923	2282.7990	1.67999	2290.7690	1.68075	2298.7530
$\frac{3}{8}$	1.67926	2283.0479	1.68001	2291.0183	1.68077	2299.0027
$1\frac{3}{32}$	1.67928	2283.2967	1.68004	2291.2676	1.68079	2299.2524
$\frac{7}{16}$	1.67930	2283.5456	1.68006	2291.5170	1.68082	2299.5022
$1\frac{5}{32}$	1.67933	2283.7945	1.68009	2291.7663	1.68084	2299.7520
$\frac{1}{2}$	1.67935	2284.0434	1.68011	2292.0156	1.68086	2300.0017
$1\frac{7}{32}$	1.67938	2284.2923	1.68013	2292.2650	1.68089	2300.2515
$\frac{9}{16}$	1.67940	2284.5413	1.68016	2292.5144	1.68091	2300.5013
$1\frac{9}{32}$	1.67942	2284.7902	1.68018	2292.7637	1.68093	2300.7511
$\frac{5}{8}$	1.67945	2285.0392	1.68020	2293.0131	1.68096	2301.0010
$2\frac{1}{32}$	1.67947	2285.2881	1.68023	2293.2625	1.68098	2301.2508
$1\frac{11}{16}$	1.67949	2285.5371	1.68025	2293.5120	1.68101	2301.5007
$2\frac{3}{32}$	1.67952	2285.7861	1.68027	2293.7614	1.68103	2301.7505
$\frac{3}{4}$	1.67954	2286.0352	1.68030	2294.0109	1.68105	2302.0004
$2\frac{5}{32}$	1.67957	2286.2842	1.68032	2294.2603	1.68108	2302.2503
$1\frac{13}{16}$	1.67959	2286.5332	1.68034	2294.5098	1.68110	2302.5002
$2\frac{7}{32}$	1.67961	2286.7823	1.68037	2294.7593	1.68112	2302.7502
$\frac{7}{8}$	1.67964	2287.0314	1.68039	2295.0088	1.68115	2303.0001
$2\frac{9}{32}$	1.67966	2287.2804	1.68042	2295.2583	1.68117	2303.2501
$1\frac{15}{16}$	1.67968	2287.5295	1.68044	2295.5078	1.68119	2303.5000
$3\frac{1}{32}$	1.67971	2287.7787	1.68046	2295.7574	1.68122	2303.7500
1	1.67973	2288.0278	1.68049	2296.0069	1.68124	2304.0000

Fractions of an inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.68124	2304.0000	1.68199	2312.0069	1.68275	2320.0278
$\frac{1}{32}$	1.68126	2304.2500	1.68202	2312.2574	1.68277	2320.2787
$\frac{1}{16}$	1.68129	2304.5000	1.68204	2312.5078	1.68279	2320.5295
$\frac{3}{32}$	1.68131	2304.7501	1.68207	2312.7583	1.68282	2320.7804
$\frac{1}{8}$	1.68134	2305.0001	1.68209	2313.0088	1.68284	2321.0314
$\frac{5}{32}$	1.68136	2305.2502	1.68211	2313.2593	1.68286	2321.2823
$\frac{3}{16}$	1.68138	2305.5002	1.68214	2313.5098	1.68289	2321.5332
$\frac{7}{32}$	1.68141	2305.7503	1.68216	2313.7603	1.68291	2321.7842
$\frac{1}{4}$	1.68143	2306.0004	1.68218	2314.0109	1.68293	2322.0352
$\frac{9}{32}$	1.68145	2306.2505	1.68221	2314.2614	1.68296	2322.2861
$\frac{5}{16}$	1.68148	2306.5007	1.68223	2314.5120	1.68298	2322.5371
$\frac{11}{32}$	1.68150	2306.7508	1.68225	2314.7625	1.68300	2322.7881
$\frac{3}{8}$	1.68152	2307.0010	1.68228	2315.0131	1.68303	2323.0392
$\frac{13}{32}$	1.68155	2307.2511	1.68230	2315.2637	1.68305	2323.2902
$\frac{7}{16}$	1.68157	2307.5013	1.68232	2315.5143	1.68308	2323.5413
$\frac{15}{32}$	1.68159	2307.7515	1.68235	2315.7650	1.68310	2323.7923
$\frac{1}{2}$	1.68162	2308.0017	1.68237	2316.0156	1.68312	2324.0434
$\frac{17}{32}$	1.68164	2308.2520	1.68239	2316.2663	1.68315	2324.2945
$\frac{9}{16}$	1.68167	2308.5022	1.68242	2316.5170	1.68317	2324.5456
$\frac{19}{32}$	1.68169	2308.7524	1.68244	2316.7676	1.68319	2324.7967
$\frac{5}{8}$	1.68171	2309.0027	1.68246	2317.0183	1.68322	2325.0479
$\frac{21}{32}$	1.68174	2309.2530	1.68249	2317.2690	1.68324	2325.2990
$\frac{11}{16}$	1.68176	2309.5033	1.68251	2317.5198	1.68326	2325.5502
$\frac{23}{32}$	1.68178	2309.7536	1.68254	2317.7705	1.68329	2325.8013
$\frac{3}{4}$	1.68181	2310.0039	1.68256	2318.0213	1.68331	2326.0525
$\frac{25}{32}$	1.68183	2310.2542	1.68258	2318.2720	1.68333	2326.3037
$\frac{13}{16}$	1.68185	2310.5046	1.68261	2318.5228	1.68336	2326.5549
$\frac{27}{32}$	1.68188	2310.7549	1.68263	2318.7736	1.68338	2326.8062
$\frac{7}{8}$	1.68190	2311.0053	1.68265	2319.0244	1.68340	2327.0574
$\frac{29}{32}$	1.68192	2311.2557	1.68268	2319.2752	1.68343	2327.3087
$\frac{15}{16}$	1.68195	2311.5061	1.68270	2319.5261	1.68345	2327.5599
$\frac{31}{32}$	1.68197	2311.7565	1.68272	2319.7769	1.68347	2327.8112
1	1.68199	2312.0069	1.68275	2320.0278	1.68350	2328.0625

48'

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.68350	2328.0625	1.68425	2336.1111	1.68499	2344.1736
$\frac{1}{32}$	1.68352	2328.3138	1.68427	2336.3629	1.68502	2344.4258
$\frac{1}{16}$	1.68354	2328.5651	1.68429	2336.6146	1.68504	2344.6780
$\frac{3}{32}$	1.68357	2328.8165	1.68432	2336.8664	1.68506	2344.9302
$\frac{1}{8}$	1.68359	2329.0678	1.68434	2337.1182	1.68509	2345.1824
$\frac{5}{32}$	1.68361	2329.3192	1.68436	2337.3700	1.68511	2345.4346
$\frac{3}{16}$	1.68364	2329.5706	1.68439	2337.6218	1.68514	2345.6869
$\frac{7}{32}$	1.68366	2329.8219	1.68441	2337.8736	1.68516	2345.9391
$\frac{1}{4}$	1.68368	2330.0734	1.68443	2338.1254	1.68518	2346.1914
$\frac{9}{32}$	1.68371	2330.3248	1.68446	2338.3773	1.68521	2346.4437
$\frac{5}{16}$	1.68373	2330.5762	1.68448	2338.6292	1.68523	2346.6960
$1\frac{1}{32}$	1.68376	2330.8276	1.68450	2338.8810	1.68525	2346.9483
$\frac{3}{8}$	1.68378	2331.0791	1.68453	2339.1329	1.68528	2347.2006
$1\frac{3}{32}$	1.68380	2331.3306	1.68455	2339.3848	1.68530	2347.4530
$\frac{7}{16}$	1.68383	2331.5821	1.68457	2339.6367	1.68532	2347.7053
$1\frac{5}{32}$	1.68385	2331.8336	1.68460	2339.8887	1.68535	2347.9577
$\frac{1}{2}$	1.68387	2332.0851	1.68462	2340.1406	1.68537	2348.2101
$1\frac{7}{32}$	1.68390	2332.3366	1.68464	2340.3926	1.68539	2348.4625
$\frac{9}{16}$	1.68392	2332.5881	1.68467	2340.6446	1.68542	2348.7149
$1\frac{9}{32}$	1.68394	2332.8397	1.68469	2340.8965	1.68544	2348.9673
$\frac{5}{8}$	1.68397	2333.0913	1.68471	2341.1485	1.68546	2349.2197
$2\frac{1}{32}$	1.68399	2333.3428	1.68474	2341.4006	1.68549	2349.4722
$1\frac{1}{4}$	1.68401	2333.5944	1.68476	2341.6526	1.68551	2349.7246
$2\frac{3}{32}$	1.68404	2333.8460	1.68478	2341.9046	1.68553	2349.9771
$\frac{3}{4}$	1.68406	2334.0977	1.68481	2342.1567	1.68556	2350.2296
$2\frac{5}{32}$	1.68408	2334.3493	1.68483	2342.4088	1.68558	2350.4821
$1\frac{3}{8}$	1.68411	2334.6009	1.68485	2342.6608	1.68560	2350.7346
$2\frac{7}{32}$	1.68413	2334.8526	1.68488	2342.9129	1.68563	2350.9871
$\frac{7}{8}$	1.68415	2335.1043	1.68490	2343.1650	1.68565	2351.2397
$2\frac{9}{32}$	1.68418	2335.3560	1.68492	2343.4172	1.68567	2351.4922
$1\frac{5}{8}$	1.68420	2335.6077	1.68495	2343.6693	1.68570	2351.7448
$3\frac{1}{32}$	1.68422	2335.8594	1.68497	2343.9214	1.68572	2351.9974
1	1.68425	2336.1111	1.68499	2344.1736	1.68574	2352.2500

Fractions of an inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.68574	2352.2500	1.68649	2360.3403	1.68723	2368.4444
$\frac{1}{32}$	1.68577	2352.5026	1.68651	2360.5933	1.68725	2368.6979
$\frac{1}{16}$	1.68579	2352.7552	1.68653	2360.8464	1.68728	2368.9514
$\frac{3}{32}$	1.68581	2353.0079	1.68656	2361.0995	1.68730	2369.2049
$\frac{1}{8}$	1.68584	2353.2605	1.68658	2361.3525	1.68732	2369.4584
$\frac{5}{32}$	1.68586	2353.5132	1.68660	2361.6056	1.68735	2369.7120
$\frac{3}{16}$	1.68588	2353.7659	1.68663	2361.8588	1.68737	2369.9655
$\frac{7}{32}$	1.68590	2354.0186	1.68665	2362.1119	1.68739	2370.2191
$\frac{1}{4}$	1.68593	2354.2713	1.68667	2362.3650	1.68742	2370.4727
$\frac{9}{32}$	1.68595	2354.5240	1.68670	2362.6182	1.68744	2370.7262
$\frac{5}{16}$	1.68597	2354.7767	1.68672	2362.8713	1.68746	2370.9798
$\frac{11}{32}$	1.68600	2355.0295	1.68674	2363.1245	1.68749	2371.2335
$\frac{3}{8}$	1.68602	2355.2822	1.68677	2363.3777	1.68751	2371.4871
$\frac{13}{32}$	1.68604	2355.5350	1.68679	2363.6309	1.68753	2371.7407
$\frac{7}{16}$	1.68607	2355.7878	1.68681	2363.8841	1.68756	2371.9944
$\frac{15}{32}$	1.68609	2356.0406	1.68684	2364.1374	1.68758	2372.2481
$\frac{1}{2}$	1.68611	2356.2934	1.68686	2364.3906	1.68760	2372.5017
$\frac{17}{32}$	1.68614	2356.5462	1.68688	2364.6439	1.68763	2372.7554
$\frac{9}{16}$	1.68616	2356.7991	1.68691	2364.8972	1.68765	2373.0091
$\frac{19}{32}$	1.68618	2357.0519	1.68693	2365.1505	1.68767	2373.2629
$\frac{5}{8}$	1.68621	2357.3048	1.68695	2365.4038	1.68770	2373.5166
$\frac{21}{32}$	1.68623	2357.5577	1.68698	2365.6571	1.68772	2373.7704
$\frac{11}{16}$	1.68625	2357.8106	1.68700	2365.9104	1.68774	2374.0241
$\frac{23}{32}$	1.68628	2358.0635	1.68702	2366.1637	1.68777	2374.2779
$\frac{3}{4}$	1.68630	2358.3164	1.68705	2366.4171	1.68779	2374.5317
$\frac{25}{32}$	1.68632	2358.5693	1.68707	2366.6705	1.68781	2374.7855
$\frac{13}{16}$	1.68635	2358.8223	1.68709	2366.9239	1.68784	2375.0393
$\frac{27}{32}$	1.68637	2359.0753	1.68712	2367.1773	1.68786	2375.2931
$\frac{7}{8}$	1.68639	2359.3282	1.68714	2367.4307	1.68788	2375.5470
$\frac{29}{32}$	1.68642	2359.5812	1.68716	2367.6841	1.68791	2375.8008
$\frac{15}{16}$	1.68644	2359.8342	1.68719	2367.9375	1.68793	2376.0547
$\frac{31}{32}$	1.68646	2360.0872	1.68721	2368.1910	1.68795	2376.3086
1	1.68649	2360.3403	1.68723	2368.4444	1.68797	2376.5625

Fractions of an inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.68797	2376.5625	1.68872	2384.6944	1.68946	2392.8403
$\frac{1}{32}$	1.68800	2376.8164	1.68874	2384.9488	1.68948	2393.0951
$\frac{1}{16}$	1.68802	2377.0703	1.68876	2385.2032	1.68950	2393.3499
$\frac{3}{32}$	1.68804	2377.3243	1.68879	2385.4575	1.68953	2393.6047
$\frac{1}{8}$	1.68807	2377.5782	1.68881	2385.7119	1.68955	2393.8595
$\frac{5}{32}$	1.68809	2377.8322	1.68883	2385.9663	1.68957	2394.1143
$\frac{3}{16}$	1.68811	2378.0862	1.68886	2386.2207	1.68960	2394.3692
$\frac{7}{32}$	1.68814	2378.3402	1.68888	2386.4752	1.68962	2394.6240
$\frac{1}{4}$	1.68816	2378.5942	1.68890	2386.7296	1.68964	2394.8789
$\frac{9}{32}$	1.68818	2378.8482	1.68892	2386.9841	1.68966	2395.1338
$\frac{5}{16}$	1.68821	2379.1022	1.68895	2387.2385	1.68969	2395.3887
$\frac{11}{32}$	1.68823	2379.3563	1.68897	2387.4930	1.68971	2395.6436
$\frac{3}{8}$	1.68825	2379.6104	1.68899	2387.7475	1.68973	2395.8985
$\frac{13}{32}$	1.68828	2379.8644	1.68902	2388.0020	1.68976	2396.1535
$\frac{7}{16}$	1.68830	2380.1185	1.68904	2388.2565	1.68978	2396.4084
$\frac{15}{32}$	1.68832	2380.3726	1.68906	2388.5111	1.68980	2396.6634
$\frac{1}{2}$	1.68835	2380.6267	1.68909	2388.7656	1.68983	2396.9184
$\frac{17}{32}$	1.68837	2380.8809	1.68911	2389.0202	1.68985	2397.1734
$\frac{9}{16}$	1.68839	2381.1350	1.68913	2389.2748	1.68987	2397.4284
$\frac{19}{32}$	1.68842	2381.3892	1.68916	2389.5294	1.68990	2397.6834
$\frac{5}{8}$	1.68844	2381.6433	1.68918	2389.7840	1.68992	2397.9385
$\frac{21}{32}$	1.68846	2381.8975	1.68920	2390.0386	1.68994	2398.1935
$\frac{11}{16}$	1.68848	2382.1517	1.68923	2390.2932	1.68997	2398.4486
$\frac{23}{32}$	1.68851	2382.4059	1.68925	2390.5479	1.68999	2398.7037
$\frac{3}{4}$	1.68853	2382.6602	1.68927	2390.8025	1.69001	2398.9588
$\frac{25}{32}$	1.68855	2382.9144	1.68929	2391.0572	1.69003	2399.2139
$\frac{13}{16}$	1.68858	2383.1686	1.68932	2391.3119	1.69006	2399.4690
$\frac{27}{32}$	1.68860	2383.4229	1.68934	2391.5666	1.69008	2399.7241
$\frac{7}{8}$	1.68862	2383.6772	1.68936	2391.8213	1.69010	2399.9793
$\frac{29}{32}$	1.68865	2383.9315	1.68939	2392.0760	1.69013	2400.2344
$\frac{15}{16}$	1.68867	2384.1858	1.68941	2392.3308	1.69015	2400.4896
$\frac{31}{32}$	1.68869	2384.4401	1.68943	2392.5855	1.69017	2400.7448
1	1.68872	2384.6944	1.68946	2392.8403	1.69020	2401.0000

Fractions of an Inch.	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.69020	2401.0000	1.69093	2409.1736	1.69167	2417.3611
$\frac{1}{32}$	1.69022	2401.2552	1.69096	2409.4293	1.69169	2417.6172
$\frac{1}{16}$	1.69024	2401.5104	1.69098	2409.6849	1.69172	2417.8733
$\frac{3}{32}$	1.69027	2401.7657	1.69100	2409.9406	1.69174	2418.1294
$\frac{1}{8}$	1.69029	2402.0209	1.69103	2410.1963	1.69176	2418.3855
$\frac{5}{32}$	1.69031	2402.2762	1.69105	2410.4520	1.69179	2418.6417
$\frac{3}{16}$	1.69033	2402.5315	1.69107	2410.7077	1.69181	2418.8978
$\frac{7}{32}$	1.69036	2402.7868	1.69110	2410.9634	1.69183	2419.1540
$\frac{1}{4}$	1.69038	2403.0421	1.69112	2411.2192	1.69185	2419.4102
$\frac{9}{32}$	1.69040	2403.2974	1.69114	2411.4749	1.69188	2419.6663
$\frac{5}{16}$	1.69043	2403.5528	1.69116	2411.7307	1.69190	2419.9226
$\frac{11}{32}$	1.69045	2403.8081	1.69119	2411.9865	1.69192	2420.1788
$\frac{3}{8}$	1.69047	2404.0635	1.69121	2412.2423	1.69195	2420.4350
$\frac{13}{32}$	1.69050	2404.3189	1.69123	2412.4981	1.69197	2420.6913
$\frac{7}{16}$	1.69052	2404.5742	1.69126	2412.7539	1.69199	2420.9475
$\frac{15}{32}$	1.69054	2404.8297	1.69128	2413.0098	1.69202	2421.2038
$\frac{1}{2}$	1.69057	2405.0851	1.69130	2413.2656	1.69204	2421.4601
$\frac{17}{32}$	1.69059	2405.3405	1.69133	2413.5215	1.69206	2421.7164
$\frac{9}{16}$	1.69061	2405.5959	1.69135	2413.7774	1.69208	2421.9727
$\frac{19}{32}$	1.69063	2405.8514	1.69137	2414.0333	1.69211	2422.2290
$\frac{5}{8}$	1.69066	2406.1069	1.69139	2414.2892	1.69213	2422.4854
$\frac{21}{32}$	1.69068	2406.3624	1.69142	2414.5451	1.69215	2422.7417
$\frac{11}{16}$	1.69070	2406.6179	1.69144	2414.8010	1.69218	2422.9981
$\frac{23}{32}$	1.69073	2406.8734	1.69146	2415.0570	1.69220	2423.2545
$\frac{3}{4}$	1.69075	2407.1289	1.69149	2415.3129	1.69222	2423.5109
$\frac{25}{32}$	1.69077	2407.3844	1.69151	2415.5689	1.69225	2423.7673
$\frac{13}{16}$	1.69080	2407.6400	1.69153	2415.8249	1.69227	2424.0237
$\frac{27}{32}$	1.69082	2407.8956	1.69156	2416.0809	1.69229	2424.2801
$\frac{7}{8}$	1.69084	2408.1511	1.69158	2416.3369	1.69231	2424.5366
$\frac{29}{32}$	1.69086	2408.4067	1.69160	2416.5929	1.69234	2424.7930
$\frac{15}{16}$	1.69089	2408.6624	1.69162	2416.8490	1.69236	2425.0495
$\frac{31}{32}$	1.69091	2408.9180	1.69165	2417.1050	1.69238	2425.3060
1	1.69093	2409.1736	1.69167	2417.3611	1.69241	2425.5625

Fractions of an Inch.	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.69241	2425.5625	1.69314	2433.7778	1.69387	2442.0069
$\frac{1}{32}$	1.69243	2425.8190	1.69316	2434.0347	1.69390	2442.2643
$\frac{1}{16}$	1.69245	2426.0755	1.69319	2434.2917	1.69392	2442.5217
$\frac{3}{32}$	1.69248	2426.3321	1.69321	2434.5487	1.69394	2442.7791
$\frac{1}{8}$	1.69250	2426.5887	1.69323	2434.8057	1.69396	2443.0366
$\frac{5}{32}$	1.69252	2426.8452	1.69326	2435.0627	1.69399	2443.2940
$\frac{3}{16}$	1.69254	2427.1018	1.69328	2435.3197	1.69401	2443.5515
$\frac{7}{32}$	1.69257	2427.3584	1.69330	2435.5767	1.69403	2443.8089
$\frac{1}{4}$	1.69259	2427.6150	1.69332	2435.8338	1.69406	2444.0664
$\frac{9}{32}$	1.69261	2427.8716	1.69335	2436.0908	1.69408	2444.3239
$\frac{5}{16}$	1.69264	2428.1283	1.69337	2436.3479	1.69410	2444.5814
$\frac{11}{32}$	1.69266	2428.3849	1.69339	2436.6050	1.69413	2444.8389
$\frac{3}{8}$	1.69268	2428.6416	1.69342	2436.8621	1.69415	2445.0965
$\frac{13}{32}$	1.69270	2428.8983	1.69344	2437.1192	1.69417	2445.3540
$\frac{7}{16}$	1.69273	2429.1550	1.69346	2437.3763	1.69419	2445.6116
$\frac{15}{32}$	1.69275	2429.4117	1.69348	2437.6335	1.69422	2445.8691
$\frac{1}{2}$	1.69277	2429.6684	1.69351	2437.8906	1.69424	2446.1267
$\frac{17}{32}$	1.69280	2429.9251	1.69353	2438.1478	1.69426	2446.3843
$\frac{9}{16}$	1.69282	2430.1819	1.69355	2438.4050	1.69429	2446.6420
$\frac{19}{32}$	1.69284	2430.4386	1.69358	2438.6622	1.69431	2446.8996
$\frac{5}{8}$	1.69287	2430.6954	1.69360	2438.9194	1.69433	2447.1572
$\frac{21}{32}$	1.69289	2430.9522	1.69362	2439.1766	1.69435	2447.4149
$\frac{11}{16}$	1.69291	2431.2090	1.69364	2439.4338	1.69438	2447.6726
$\frac{23}{32}$	1.69293	2431.4658	1.69367	2439.6911	1.69440	2447.9302
$\frac{3}{4}$	1.69296	2431.7227	1.69369	2439.9484	1.69442	2448.1879
$\frac{25}{32}$	1.69298	2431.9795	1.69371	2440.2056	1.69445	2448.4456
$\frac{13}{16}$	1.69300	2432.2364	1.69374	2440.4629	1.69447	2448.7034
$\frac{27}{32}$	1.69303	2432.4932	1.69376	2440.7202	1.69449	2448.9611
$\frac{7}{8}$	1.69305	2432.7501	1.69378	2440.9775	1.69451	2449.2189
$\frac{29}{32}$	1.69307	2433.0070	1.69380	2441.2349	1.69454	2449.4766
$\frac{15}{16}$	1.69309	2433.2639	1.69383	2441.4922	1.69456	2449.7344
$\frac{31}{32}$	1.69312	2433.5208	1.69385	2441.7496	1.69458	2449.9922
1	1.69314	2433.7778	1.69387	2442.0069	1.69461	2450.2500

49'

Fractions of an Inch.	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.69461	2450.2500	1.69534	2458.5069	1.69607	2466.7778
$\frac{1}{32}$	1.69463	2450.5078	1.69536	2458.7652	1.69609	2467.0365
$\frac{1}{16}$	1.69465	2450.7657	1.69538	2459.0235	1.69611	2467.2952
$\frac{3}{32}$	1.69467	2451.0235	1.69540	2459.2817	1.69613	2467.5539
$\frac{1}{8}$	1.69470	2451.2814	1.69543	2459.5400	1.69616	2467.8126
$\frac{5}{32}$	1.69472	2451.5392	1.69545	2459.7983	1.69618	2468.0714
$\frac{3}{16}$	1.69474	2451.7971	1.69547	2460.0567	1.69620	2468.3301
$\frac{7}{32}$	1.69477	2452.0550	1.69550	2460.3150	1.69622	2468.5889
$\frac{1}{4}$	1.69479	2452.3129	1.69552	2460.5734	1.69625	2468.8477
$\frac{9}{32}$	1.69481	2452.5709	1.69554	2460.8317	1.69627	2469.1065
$\frac{5}{16}$	1.69483	2452.8288	1.69556	2461.0901	1.69629	2469.3653
$\frac{11}{32}$	1.69486	2453.0868	1.69559	2461.3485	1.69632	2469.6241
$\frac{3}{8}$	1.69488	2453.3447	1.69561	2461.6069	1.69634	2469.8829
$\frac{13}{32}$	1.69490	2453.6027	1.69563	2461.8653	1.69636	2470.1418
$\frac{7}{16}$	1.69492	2453.8607	1.69565	2462.1237	1.69638	2470.4006
$\frac{15}{32}$	1.69495	2454.1187	1.69568	2462.3822	1.69641	2470.6595
$\frac{1}{2}$	1.69497	2454.3767	1.69570	2462.6406	1.69643	2470.9184
$\frac{17}{32}$	1.69499	2454.6348	1.69572	2462.8991	1.69645	2471.1773
$\frac{9}{16}$	1.69502	2454.8928	1.69575	2463.1576	1.69647	2471.4362
$\frac{19}{32}$	1.69504	2455.1509	1.69577	2463.4161	1.69650	2471.6952
$\frac{5}{8}$	1.69506	2455.4090	1.69579	2463.6746	1.69652	2471.9541
$\frac{21}{32}$	1.69508	2455.6671	1.69581	2463.9331	1.69654	2472.2131
$\frac{11}{16}$	1.69511	2455.9252	1.69584	2464.1917	1.69657	2472.4720
$\frac{23}{32}$	1.69513	2456.1833	1.69586	2464.4502	1.69659	2472.7310
$\frac{3}{4}$	1.69515	2456.4414	1.69588	2464.7088	1.69661	2472.9900
$\frac{25}{32}$	1.69518	2456.6996	1.69591	2464.9673	1.69663	2473.2490
$\frac{13}{16}$	1.69520	2456.9577	1.69593	2465.2259	1.69666	2473.5081
$\frac{27}{32}$	1.69522	2457.2159	1.69595	2465.4845	1.69668	2473.7671
$\frac{7}{8}$	1.69524	2457.4741	1.69597	2465.7432	1.69670	2474.0262
$\frac{29}{32}$	1.69527	2457.7323	1.69600	2466.0018	1.69672	2474.2852
$\frac{15}{16}$	1.69529	2457.9905	1.69602	2466.2604	1.69675	2474.5443
$\frac{31}{32}$	1.69531	2458.2487	1.69604	2466.5191	1.69677	2474.8034
1	1.69534	2458.5069	1.69607	2466.7778	1.69679	2475.0625

49'

Fractions of an Inch.	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.69679	2475.0625	1.69752	2483.3611	1.69825	2491.6736
$\frac{1}{32}$	1.69682	2475.3216	1.69754	2483.6207	1.69827	2491.9336
$\frac{1}{16}$	1.69684	2475.5808	1.69757	2483.8802	1.69829	2492.1936
$\frac{3}{32}$	1.69686	2475.8399	1.69759	2484.1398	1.69831	2492.4536
$\frac{1}{8}$	1.69688	2476.0991	1.69761	2484.3994	1.69834	2492.7137
$\frac{5}{32}$	1.69691	2476.3582	1.69763	2484.6590	1.69836	2492.9737
$\frac{3}{16}$	1.69693	2476.6174	1.69766	2484.9186	1.69838	2493.2338
$\frac{7}{32}$	1.69695	2476.8766	1.69768	2485.1783	1.69840	2493.4938
$\frac{1}{4}$	1.69697	2477.1359	1.69770	2485.4379	1.69843	2493.7539
$\frac{9}{32}$	1.69700	2477.3951	1.69772	2485.6976	1.69845	2494.0140
$\frac{5}{16}$	1.69702	2477.6543	1.69775	2485.9573	1.69847	2494.2741
$\frac{11}{32}$	1.69704	2477.9136	1.69777	2486.2170	1.69849	2494.5342
$\frac{3}{8}$	1.69707	2478.1729	1.69779	2486.4767	1.69852	2494.7944
$\frac{13}{32}$	1.69709	2478.4321	1.69781	2486.7364	1.69854	2495.0545
$\frac{7}{16}$	1.69711	2478.6914	1.69784	2486.9961	1.69856	2495.3147
$\frac{15}{32}$	1.69713	2478.9507	1.69786	2487.2559	1.69859	2495.5749
$\frac{1}{2}$	1.69716	2479.2101	1.69788	2487.5156	1.69861	2495.8351
$\frac{17}{32}$	1.69718	2479.4694	1.69791	2487.7754	1.69863	2496.0953
$\frac{9}{16}$	1.69720	2479.7288	1.69793	2488.0352	1.69865	2496.3555
$\frac{19}{32}$	1.69722	2479.9881	1.69795	2488.2950	1.69868	2496.6157
$\frac{5}{8}$	1.69725	2480.2475	1.69797	2488.5548	1.69870	2496.8760
$\frac{21}{32}$	1.69727	2480.5069	1.69800	2488.8146	1.69872	2497.1362
$\frac{11}{16}$	1.69729	2480.7663	1.69802	2489.0745	1.69874	2497.3965
$\frac{23}{32}$	1.69732	2481.0257	1.69804	2489.3343	1.69877	2497.6568
$\frac{3}{4}$	1.69734	2481.2852	1.69806	2489.5942	1.69879	2497.9171
$\frac{25}{32}$	1.69736	2481.5446	1.69809	2489.8541	1.69881	2498.1774
$\frac{13}{16}$	1.69738	2481.8041	1.69811	2490.1140	1.69883	2498.4377
$\frac{27}{32}$	1.69741	2482.0635	1.69813	2490.3739	1.69886	2498.6981
$\frac{7}{8}$	1.69743	2482.3230	1.69815	2490.6338	1.69888	2498.9584
$\frac{29}{32}$	1.69745	2482.5825	1.69818	2490.8937	1.69890	2499.2188
$\frac{15}{16}$	1.69747	2482.8420	1.69820	2491.1537	1.69892	2499.4792
$\frac{31}{32}$	1.69750	2483.1016	1.69822	2491.4136	1.69895	2499.7396
1	1.69752	2483.3611	1.69825	2491.6736	1.69897	2500.0000

50'

Fraction of an inch	0'		1"		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.69897	2500.0000	1.69969	2508.3403	1.70042	2516.6944
1/16	1.69902	2500.5209	1.69974	2508.8620	1.70046	2517.2170
1/8	1.69906	2501.0418	1.69978	2509.3838	1.70051	2517.7397
3/16	1.69911	2501.5627	1.69983	2509.9056	1.70055	2518.2624
1/4	1.69915	2502.0838	1.69987	2510.4275	1.70060	2518.7852
5/16	1.69920	2502.6048	1.69992	2510.9495	1.70064	2519.3080
3/8	1.69924	2503.1260	1.69996	2511.4715	1.70069	2519.8308
7/16	1.69929	2503.6472	1.70001	2511.9935	1.70073	2520.3538
1/2	1.69933	2504.1684	1.70005	2512.5156	1.70078	2520.8767
9/16	1.69938	2504.6897	1.70010	2513.0378	1.70082	2521.3998
5/8	1.69942	2505.2110	1.70014	2513.5600	1.70087	2521.9229
11/16	1.69947	2505.7324	1.70019	2514.0823	1.70091	2522.4460
3/4	1.69951	2506.2539	1.70023	2514.6046	1.70096	2522.9692
13/16	1.69956	2506.7754	1.70028	2515.1270	1.70100	2523.4924
7/8	1.69960	2507.2970	1.70033	2515.6494	1.70105	2524.0157
15/16	1.69965	2507.8186	1.70037	2516.1719	1.70109	2524.5391

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.70114	2525.0625	1.70186	2533.4444	1.70257	2541.8403
1/16	1.70118	2525.5860	1.70190	2533.9688	1.70262	2542.3655
1/8	1.70123	2526.1095	1.70195	2534.4932	1.70266	2542.8907
3/16	1.70127	2526.6331	1.70199	2535.0176	1.70271	2543.4160
1/4	1.70132	2527.1567	1.70204	2535.5421	1.70275	2543.9414
5/16	1.70136	2527.6804	1.70208	2536.0667	1.70280	2544.4668
3/8	1.70141	2528.2041	1.70213	2536.5913	1.70284	2544.9923
7/16	1.70145	2528.7279	1.70217	2537.1159	1.70289	2545.5178
1/2	1.70150	2529.2517	1.70222	2537.6406	1.70293	2546.0434
9/16	1.70154	2529.7756	1.70226	2538.1654	1.70298	2546.5690
5/8	1.70159	2530.2996	1.70230	2538.6902	1.70302	2547.0947
11/16	1.70163	2530.8236	1.70235	2539.2151	1.70307	2547.6205
3/4	1.70168	2531.3477	1.70239	2539.7400	1.70311	2548.1463
13/16	1.70172	2531.8718	1.70244	2540.2650	1.70316	2548.6721
7/8	1.70177	2532.3959	1.70248	2540.7900	1.70320	2549.1980
15/16	1.70181	2532.9202	1.70253	2541.3151	1.70325	2549.7240

50'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.70329	2550.2500	1.70401	2558.6736	1.70472	2567.1111
1/16	1.70334	2550.7761	1.70405	2559.2005	1.70477	2567.6389
1/8	1.70338	2551.3022	1.70410	2559.7275	1.70481	2568.1668
3/16	1.70343	2551.8284	1.70414	2560.2546	1.70486	2568.6947
1/4	1.70347	2552.3546	1.70419	2560.7817	1.70490	2569.2227
5/16	1.70352	2552.8809	1.70423	2561.3088	1.70495	2569.7507
3/8	1.70356	2553.4072	1.70428	2561.8360	1.70499	2570.2788
7/16	1.70360	2553.9336	1.70432	2562.3633	1.70503	2570.8069
1/2	1.70365	2554.4601	1.70437	2562.8906	1.70508	2571.3351
9/16	1.70369	2554.9866	1.70441	2563.4180	1.70512	2571.8633
5/8	1.70374	2555.5131	1.70445	2563.9454	1.70517	2572.3916
11/16	1.70378	2556.0397	1.70450	2564.4729	1.70521	2572.9199
3/4	1.70383	2556.5664	1.70454	2565.0004	1.70526	2573.4484
13/16	1.70387	2557.0931	1.70459	2565.5280	1.70530	2573.9768
7/8	1.70392	2557.6199	1.70463	2566.0557	1.70535	2574.5053
15/16	1.70396	2558.1467	1.70468	2566.5834	1.70539	2575.0339

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.70544	2575.5625	1.70615	2584.0278	1.70686	2592.5069
1/16	1.70548	2576.0912	1.70619	2584.5573	1.70690	2593.0374
1/8	1.70553	2576.6199	1.70624	2585.0869	1.70695	2593.5678
3/16	1.70557	2577.1487	1.70628	2585.6166	1.70699	2594.0983
1/4	1.70561	2577.6775	1.70633	2586.1463	1.70704	2594.6289
5/16	1.70566	2578.2064	1.70637	2586.6760	1.70708	2595.1595
3/8	1.70570	2578.7354	1.70642	2587.2058	1.70713	2595.6902
7/16	1.70575	2579.2644	1.70646	2587.7357	1.70717	2596.2209
1/2	1.70579	2579.7934	1.70650	2588.2656	1.70722	2596.7517
9/16	1.70584	2580.3225	1.70655	2588.7956	1.70726	2597.2826
5/8	1.70588	2580.8517	1.70659	2589.3256	1.70730	2597.8135
11/16	1.70593	2581.3809	1.70664	2589.8557	1.70735	2598.3444
3/4	1.70597	2581.9102	1.70668	2590.3859	1.70739	2598.8754
13/16	1.70602	2582.4395	1.70673	2590.9160	1.70744	2599.4065
7/8	1.70606	2582.9689	1.70677	2591.4463	1.70748	2599.9376
15/16	1.70610	2583.4983	1.70682	2591.9766	1.70753	2600.4688

51'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.70757	2601.0000	1.70828	2609.5069	1.70899	2618.0278
$\frac{1}{16}$	1.70761	2601.5313	1.70832	2610.0391	1.70903	2618.5608
$\frac{1}{8}$	1.70766	2602.0626	1.70837	2610.5713	1.70908	2619.0939
$\frac{3}{16}$	1.70770	2602.5940	1.70841	2611.1035	1.70912	2619.6270
$\frac{1}{4}$	1.70775	2603.1254	1.70846	2611.6359	1.70916	2620.1602
$\frac{5}{16}$	1.70779	2603.6569	1.70850	2612.1682	1.70921	2620.6934
$\frac{3}{8}$	1.70784	2604.1885	1.70854	2612.7006	1.70925	2621.2267
$\frac{7}{16}$	1.70788	2604.7201	1.70859	2613.2331	1.70930	2621.7600
$\frac{1}{2}$	1.70792	2605.2517	1.70863	2613.7656	1.70934	2622.2934
$\frac{9}{16}$	1.70797	2605.7834	1.70868	2614.2982	1.70938	2622.8269
$\frac{5}{8}$	1.70801	2606.3152	1.70872	2614.8308	1.70943	2623.3604
$1\frac{1}{16}$	1.70806	2606.8470	1.70877	2615.3635	1.70947	2623.8939
$\frac{3}{4}$	1.70810	2607.3789	1.70881	2615.8963	1.70952	2624.4275
$1\frac{3}{16}$	1.70815	2607.9108	1.70885	2616.4291	1.70956	2624.9612
$\frac{7}{8}$	1.70819	2608.4428	1.70890	2616.9619	1.70961	2625.4949
$1\frac{5}{16}$	1.70823	2608.9749	1.70894	2617.4948	1.70965	2626.0287

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.70969	2626.5625	1.71040	2635.1111	1.71110	2643.6736
$\frac{1}{16}$	1.70974	2627.0964	1.71044	2635.6459	1.71115	2644.2092
$\frac{1}{8}$	1.70978	2627.6303	1.71049	2636.1807	1.71119	2644.7449
$\frac{3}{16}$	1.70983	2628.1643	1.71053	2636.7155	1.71124	2645.2806
$\frac{1}{4}$	1.70987	2628.6984	1.71058	2637.2504	1.71128	2645.8164
$\frac{5}{16}$	1.70991	2629.2324	1.71062	2637.7854	1.71132	2646.3522
$\frac{3}{8}$	1.70996	2629.7666	1.71066	2638.3204	1.71137	2646.8881
$\frac{7}{16}$	1.71000	2630.3008	1.71071	2638.8555	1.71141	2647.4241
$\frac{1}{2}$	1.71005	2630.8351	1.71075	2639.3906	1.71146	2647.9601
$\frac{9}{16}$	1.71009	2631.3694	1.71080	2639.9258	1.71150	2648.4961
$\frac{5}{8}$	1.71014	2631.9038	1.71084	2640.4610	1.71154	2649.0322
$1\frac{1}{16}$	1.71018	2632.4382	1.71088	2640.9963	1.71159	2649.5684
$\frac{3}{4}$	1.71022	2632.9727	1.71093	2641.5317	1.71163	2650.1046
$1\frac{3}{16}$	1.71027	2633.5072	1.71097	2642.0671	1.71168	2650.6409
$\frac{7}{8}$	1.71031	2634.0418	1.71102	2642.6025	1.71172	2651.1772
$1\frac{5}{16}$	1.71036	2634.5764	1.71106	2643.1380	1.71176	2651.7136

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.71181	2652.2500	1.71251	2660.8403	1.71321	2669.4444
1/16	1.71185	2652.7865	1.71255	2661.3776	1.71325	2669.9827
1/8	1.71190	2653.3230	1.71260	2661.9150	1.71330	2670.5209
3/16	1.71194	2653.8596	1.71264	2662.4525	1.71334	2671.0593
1/4	1.71198	2654.3963	1.71268	2662.9900	1.71339	2671.5977
5/16	1.71203	2654.9330	1.71273	2663.5276	1.71343	2672.1361
3/8	1.71207	2655.4697	1.71277	2664.0652	1.71347	2672.6746
7/16	1.71211	2656.0065	1.71282	2664.6029	1.71352	2673.2131
1/2	1.71216	2656.5434	1.71286	2665.1406	1.71356	2673.7517
9/16	1.71220	2657.0803	1.71290	2665.6784	1.71360	2674.2904
5/8	1.71225	2657.6173	1.71295	2666.2163	1.71365	2674.8291
11/16	1.71229	2658.1543	1.71299	2666.7542	1.71369	2675.3679
3/4	1.71233	2658.6914	1.71304	2667.2921	1.71374	2675.9067
13/16	1.71238	2659.2285	1.71308	2667.8301	1.71378	2676.4456
7/8	1.71242	2659.7657	1.71312	2668.3682	1.71382	2676.9845
15/16	1.71247	2660.3030	1.71317	2668.9063	1.71387	2677.5235

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.71391	2678.0625	1.71461	2686.6944	1.71531	2695.3403
1/16	1.71395	2678.6016	1.71465	2687.2344	1.71535	2695.8811
1/8	1.71400	2679.1407	1.71470	2687.7744	1.71539	2696.4220
3/16	1.71404	2679.6799	1.71474	2688.3145	1.71544	2696.9629
1/4	1.71409	2680.2192	1.71478	2688.8546	1.71548	2697.5039
5/16	1.71413	2680.7585	1.71483	2689.3948	1.71552	2698.0449
3/8	1.71417	2681.2979	1.71487	2689.9350	1.71557	2698.5860
7/16	1.71422	2681.8373	1.71491	2690.4753	1.71561	2699.1272
1/2	1.71426	2682.3767	1.71496	2691.0156	1.71566	2699.6684
9/16	1.71430	2682.9163	1.71500	2691.5560	1.71570	2700.2097
5/8	1.71435	2683.4558	1.71505	2692.0965	1.71574	2700.7510
11/16	1.71439	2683.9955	1.71509	2692.6370	1.71579	2701.2923
3/4	1.71443	2684.5352	1.71513	2693.1775	1.71583	2701.8338
13/16	1.71448	2685.0749	1.71518	2693.7181	1.71587	2702.3752
7/8	1.71452	2685.6147	1.71522	2694.2588	1.71592	2702.9168
15/16	1.71457	2686.1545	1.71526	2694.7995	1.71596	2703.4584

Fraction of an inch	0'		1'		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.71600	2704.0000	1.71670	2712.6736	1.71739	2721.3611
1/16	1.71605	2704.5417	1.71674	2713.2162	1.71744	2721.9045
1/8	1.71609	2705.0834	1.71679	2713.7588	1.71748	2722.4480
3/16	1.71613	2705.6252	1.71683	2714.3015	1.71752	2722.9916
1/4	1.71618	2706.1671	1.71687	2714.8442	1.71757	2723.5352
5/16	1.71622	2706.7090	1.71692	2715.3870	1.71761	2724.0788
3/8	1.71626	2707.2510	1.71696	2715.9298	1.71765	2724.6225
7/16	1.71631	2707.7930	1.71700	2716.4727	1.71770	2725.1663
1/2	1.71635	2708.3351	1.71705	2717.0156	1.71774	2725.7101
9/16	1.71639	2708.8772	1.71709	2717.5586	1.71778	2726.2539
5/8	1.71644	2709.4194	1.71713	2718.1017	1.71783	2726.7979
11/16	1.71648	2709.9616	1.71718	2718.6448	1.71787	2727.3418
3/4	1.71653	2710.5039	1.71722	2719.1879	1.71791	2727.8859
13/16	1.71657	2711.0463	1.71726	2719.7311	1.71796	2728.4299
7/8	1.71661	2711.5887	1.71731	2720.2744	1.71800	2728.9741
15/16	1.71666	2712.1311	1.71735	2720.8177	1.71804	2729.5183

Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.71809	2730.0625	1.71878	2738.7778	1.71947	2747.5069
1/16	1.71813	2730.6068	1.71882	2739.3229	1.71951	2748.0530
1/8	1.71817	2731.1512	1.71886	2739.8682	1.71956	2748.5991
3/16	1.71822	2731.6956	1.71891	2740.4134	1.71960	2749.1452
1/4	1.71826	2732.2400	1.71895	2740.9588	1.71964	2749.6914
5/16	1.71830	2732.7845	1.71899	2741.5042	1.71969	2750.2377
3/8	1.71835	2733.3291	1.71904	2742.0496	1.71973	2750.7840
7/16	1.71839	2733.8737	1.71908	2742.5951	1.71977	2751.3303
1/2	1.71843	2734.4184	1.71912	2743.1406	1.71981	2751.8767
9/16	1.71848	2734.9631	1.71917	2743.6862	1.71986	2752.4232
5/8	1.71852	2735.5079	1.71921	2744.2319	1.71990	2752.9697
11/16	1.71856	2736.0528	1.71925	2744.7776	1.71994	2753.5163
3/4	1.71861	2736.5977	1.71930	2745.3234	1.71999	2754.0629
13/16	1.71865	2737.1426	1.71934	2745.8692	1.72003	2754.6096
7/8	1.71869	2737.6876	1.71938	2746.4150	1.72007	2755.1564
15/16	1.71874	2738.2327	1.71943	2746.9610	1.72012	2755.7032

52'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.72016	2756.2500	1.72085	2765.0069	1.72154	2773.7778
1/16	1.72020	2756.7969	1.72089	2765.5547	1.72158	2774.3264
1/8	1.72025	2757.3439	1.72093	2766.1025	1.72162	2774.8751
3/16	1.72029	2757.8909	1.72098	2766.6504	1.72166	2775.4239
1/4	1.72033	2758.4379	1.72102	2767.1984	1.72171	2775.9727
5/16	1.72037	2758.9851	1.72106	2767.7463	1.72175	2776.5215
3/8	1.72042	2759.5322	1.72111	2768.2944	1.72179	2777.0704
7/16	1.72046	2760.0795	1.72115	2768.8425	1.72184	2777.6194
1/2	1.72050	2760.6267	1.72119	2769.3906	1.72188	2778.1684
9/16	1.72055	2761.1741	1.72124	2769.9388	1.72192	2778.7175
5/8	1.72059	2761.7215	1.72128	2770.4871	1.72197	2779.2666
11/16	1.72063	2762.2689	1.72132	2771.0354	1.72201	2779.8158
3/4	1.72068	2762.8164	1.72136	2771.5838	1.72205	2780.3650
13/16	1.72072	2763.3640	1.72141	2772.1322	1.72209	2780.9143
7/8	1.72076	2763.9116	1.72145	2772.6807	1.72214	2781.4637
15/16	1.72081	2764.4592	1.72149	2773.2292	1.72218	2782.0130

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.72222	2782.5625	1.72291	2791.3611	1.72359	2800.1736
1/16	1.72227	2783.1120	1.72295	2791.9115	1.72364	2800.7249
1/8	1.72231	2783.6616	1.72299	2792.4619	1.72368	2801.2762
3/16	1.72235	2784.2112	1.72304	2793.0124	1.72372	2801.8275
1/4	1.72239	2784.7609	1.72308	2793.5629	1.72376	2802.3789
5/16	1.72244	2785.3106	1.72312	2794.1135	1.72381	2802.9304
3/8	1.72248	2785.8604	1.72316	2794.6642	1.72385	2803.4819
7/16	1.72252	2786.4102	1.72321	2795.2149	1.72389	2804.0334
1/2	1.72257	2786.9601	1.72325	2795.7656	1.72393	2804.5851
9/16	1.72261	2787.5100	1.72329	2796.3164	1.72398	2805.1367
5/8	1.72265	2788.0600	1.72334	2796.8673	1.72402	2805.6885
11/16	1.72269	2788.6101	1.72338	2797.4182	1.72406	2806.2403
3/4	1.72274	2789.1602	1.72342	2797.9692	1.72411	2806.7921
13/16	1.72278	2789.7103	1.72346	2798.5202	1.72415	2807.3440
7/8	1.72282	2790.2605	1.72351	2799.0713	1.72419	2807.8959
15/16	1.72287	2790.8108	1.72355	2799.6224	1.72423	2808.4479

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.72428	2809.0000	1.72496	2817.8403	1.72564	2826.6944
1/16	1.72432	2809.5521	1.72500	2818.3933	1.72568	2827.2483
1/8	1.72436	2810.1043	1.72504	2818.9463	1.72572	2827.8022
3/16	1.72440	2810.6565	1.72509	2819.4994	1.72577	2828.3561
1/4	1.72445	2811.2088	1.72513	2820.0525	1.72581	2828.9102
5/16	1.72449	2811.7611	1.72517	2820.6057	1.72585	2829.4642
3/8	1.72453	2812.3135	1.72521	2821.1590	1.72589	2830.0183
7/16	1.72457	2812.8659	1.72526	2821.7123	1.72594	2830.5725
1/2	1.72462	2813.4184	1.72530	2822.2656	1.72598	2831.1267
9/16	1.72466	2813.9709	1.72534	2822.8190	1.72602	2831.6810
5/8	1.72470	2814.5235	1.72538	2823.3725	1.72606	2832.2354
11/16	1.72475	2815.0762	1.72543	2823.9260	1.72611	2832.7897
3/4	1.72479	2815.6289	1.72547	2824.4796	1.72615	2833.3442
13/16	1.72483	2816.1817	1.72551	2825.0332	1.72619	2833.8987
7/8	1.72487	2816.7345	1.72555	2825.5869	1.72623	2834.4532
15/16	1.72492	2817.2874	1.72560	2826.1407	1.72628	2835.0078

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.72632	2835.5625	1.72700	2844.4444	1.72768	2853.3403
1/16	1.72636	2836.1172	1.72704	2845.0000	1.72772	2853.8967
1/8	1.72640	2836.6720	1.72708	2845.5557	1.72776	2854.4532
3/16	1.72645	2837.2268	1.72713	2846.1114	1.72780	2855.0098
1/4	1.72649	2837.7817	1.72717	2846.6671	1.72785	2855.5664
5/16	1.72653	2838.3366	1.72721	2847.2229	1.72789	2856.1231
3/8	1.72657	2838.8916	1.72725	2847.7788	1.72793	2856.6798
7/16	1.72662	2839.4466	1.72730	2848.3347	1.72797	2857.2366
1/2	1.72666	2840.0017	1.72734	2848.8906	1.72802	2857.7934
9/16	1.72670	2840.5569	1.72738	2849.4466	1.72806	2858.3503
5/8	1.72674	2841.1121	1.72742	2850.0027	1.72810	2858.9072
11/16	1.72679	2841.6673	1.72747	2850.5588	1.72814	2859.4642
3/4	1.72683	2842.2227	1.72751	2851.1150	1.72818	2860.0213
13/16	1.72687	2842.7780	1.72755	2851.6713	1.72823	2860.5784
7/8	1.72691	2843.3334	1.72759	2852.2275	1.72827	2861.1355
15/16	1.72696	2843.8889	1.72763	2852.7839	1.72831	2861.6927

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.72835	2862.2500	1.72903	2871.1736	1.72970	2880.1111
1/16	1.72840	2862.8073	1.72907	2871.7318	1.72975	2880.6702
1/8	1.72844	2863.3647	1.72911	2872.2900	1.72979	2881.2293
3/16	1.72848	2863.9221	1.72916	2872.8483	1.72983	2881.7884
1/4	1.72852	2864.4796	1.72920	2873.4067	1.72987	2882.3477
5/16	1.72857	2865.0371	1.72924	2873.9651	1.72992	2882.9069
3/8	1.72861	2865.5947	1.72928	2874.5235	1.72996	2883.4663
7/16	1.72865	2866.1524	1.72933	2875.0821	1.73000	2884.0256
1/2	1.72869	2866.7101	1.72937	2875.6406	1.73004	2884.5851
9/16	1.72873	2867.2678	1.72941	2876.1992	1.73008	2885.1446
5/8	1.72878	2867.8256	1.72945	2876.7579	1.73013	2885.7041
11/16	1.72882	2868.3835	1.72949	2877.3167	1.73017	2886.2637
3/4	1.72886	2868.9414	1.72954	2877.8754	1.73021	2886.8234
13/16	1.72890	2869.4994	1.72958	2878.4343	1.73025	2887.3831
7/8	1.72895	2870.0574	1.72962	2878.9932	1.73029	2887.9428
15/16	1.72899	2870.6155	1.72966	2879.5521	1.73034	2888.5026
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.73038	2889.0625	1.73105	2898.0278	1.73172	2907.0069
1/16	1.73042	2889.6224	1.73109	2898.5886	1.73177	2907.5686
1/8	1.73046	2890.1824	1.73114	2899.1494	1.73181	2908.1303
3/16	1.73050	2890.7424	1.73118	2899.7103	1.73185	2908.6921
1/4	1.73055	2891.3025	1.73122	2900.2713	1.73189	2909.2539
5/16	1.73059	2891.8627	1.73126	2900.8323	1.73193	2909.8158
3/8	1.73063	2892.4229	1.73130	2901.3933	1.73197	2910.3777
7/16	1.73067	2892.9831	1.73135	2901.9545	1.73202	2910.9397
1/2	1.73072	2893.5434	1.73139	2902.5156	1.73206	2911.5017
9/16	1.73076	2894.1038	1.73143	2903.0768	1.73210	2912.0638
5/8	1.73080	2894.6642	1.73147	2903.6381	1.73214	2912.6260
11/16	1.73084	2895.2246	1.73151	2904.1995	1.73218	2913.1882
3/4	1.73088	2895.7852	1.73156	2904.7609	1.73223	2913.7504
13/16	1.73093	2896.3457	1.73160	2905.3223	1.73227	2914.3127
7/8	1.73097	2896.9064	1.73164	2905.8838	1.73231	2914.8751
15/16	1.73101	2897.4670	1.73168	2906.4453	1.73235	2915.4375

54'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.73239	2916.0000	1.73306	2925.0069	1.73373	2934.0278
$\frac{1}{16}$	1.73244	2916.5625	1.73311	2925.5703	1.73377	2934.5920
$\frac{1}{8}$	1.73248	2917.1251	1.73315	2926.1338	1.73382	2935.1564
$\frac{3}{16}$	1.73252	2917.6877	1.73319	2926.6973	1.73386	2935.7207
$\frac{1}{4}$	1.73256	2918.2504	1.73323	2927.2609	1.73390	2936.2852
$\frac{5}{16}$	1.73260	2918.8132	1.73327	2927.8245	1.73394	2936.8496
$\frac{3}{8}$	1.73265	2919.3760	1.73331	2928.3881	1.73398	2937.4142
$\frac{7}{16}$	1.73269	2919.9388	1.73336	2928.9519	1.73402	2937.9788
$\frac{1}{2}$	1.73273	2920.5017	1.73340	2929.5156	1.73407	2938.5434
$\frac{9}{16}$	1.73277	2921.0647	1.73344	2930.0795	1.73411	2939.1081
$\frac{5}{8}$	1.73281	2921.6277	1.73348	2930.6433	1.73415	2939.6729
$1\frac{1}{16}$	1.73285	2922.1908	1.73352	2931.2073	1.73419	2940.2377
$\frac{3}{4}$	1.73290	2922.7539	1.73357	2931.7713	1.73423	2940.8025
$1\frac{1}{8}$	1.73294	2923.3171	1.73361	2932.3353	1.73427	2941.3674
$\frac{7}{8}$	1.73298	2923.8803	1.73365	2932.8994	1.73432	2941.9324
$1\frac{1}{2}$	1.73302	2924.4436	1.73369	2933.4636	1.73436	2942.4974

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.73440	2943.0625	1.73507	2952.1111	1.73573	2961.1736
$\frac{1}{16}$	1.73444	2943.6276	1.73511	2952.6771	1.73577	2961.7405
$\frac{1}{8}$	1.73448	2944.1928	1.73515	2953.2432	1.73582	2962.3074
$\frac{3}{16}$	1.73452	2944.7581	1.73519	2953.8093	1.73586	2962.8744
$\frac{1}{4}$	1.73457	2945.3234	1.73523	2954.3754	1.73590	2963.4414
$\frac{5}{16}$	1.73461	2945.8887	1.73527	2954.9417	1.73594	2964.0085
$\frac{3}{8}$	1.73465	2946.4541	1.73532	2955.5079	1.73598	2964.5756
$\frac{7}{16}$	1.73469	2947.0196	1.73536	2956.0742	1.73602	2965.1428
$\frac{1}{2}$	1.73473	2947.5851	1.73540	2956.6406	1.73606	2965.7101
$\frac{9}{16}$	1.73477	2948.1506	1.73544	2957.2071	1.73611	2966.2774
$\frac{5}{8}$	1.73482	2948.7163	1.73548	2957.7735	1.73615	2966.8447
$1\frac{1}{16}$	1.73486	2949.2819	1.73552	2958.3401	1.73619	2967.4121
$\frac{3}{4}$	1.73490	2949.8477	1.73557	2958.9067	1.73623	2967.9796
$1\frac{1}{8}$	1.73494	2950.4134	1.73561	2959.4733	1.73627	2968.5471
$\frac{7}{8}$	1.73498	2950.9793	1.73565	2960.0400	1.73631	2969.1147
$1\frac{1}{2}$	1.73502	2951.5452	1.73569	2960.6068	1.73636	2969.6823

54'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.73640	2970.2500	1.73706	2979.3403	1.73772	2988.4444
$\frac{1}{16}$	1.73644	2970.8177	1.73710	2979.9089	1.73776	2989.0139
$\frac{1}{8}$	1.73648	2971.3855	1.73714	2980.4775	1.73781	2989.5834
$\frac{3}{16}$	1.73652	2971.9534	1.73718	2981.0463	1.73785	2990.1530
$\frac{1}{4}$	1.73656	2972.5213	1.73723	2981.6150	1.73789	2990.7227
$\frac{5}{16}$	1.73660	2973.0892	1.73727	2982.1838	1.73793	2991.2923
$\frac{3}{8}$	1.73665	2973.6572	1.73731	2982.7527	1.73797	2991.8621
$\frac{7}{16}$	1.73669	2974.2253	1.73735	2983.3216	1.73801	2992.4319
$\frac{1}{2}$	1.73673	2974.7934	1.73739	2983.8906	1.73805	2993.0017
$\frac{9}{16}$	1.73677	2975.3616	1.73743	2984.4597	1.73809	2993.5716
$\frac{5}{8}$	1.73681	2975.9298	1.73747	2985.0288	1.73814	2994.1416
$1\frac{1}{16}$	1.73685	2976.4981	1.73752	2985.5979	1.73818	2994.7116
$\frac{3}{4}$	1.73689	2977.0664	1.73756	2986.1671	1.73822	2995.2817
$1\frac{3}{16}$	1.73694	2977.6348	1.73760	2986.7364	1.73826	2995.8518
$\frac{7}{8}$	1.73698	2978.2032	1.73764	2987.3057	1.73830	2996.4220
$1\frac{5}{16}$	1.73702	2978.7717	1.73768	2987.8750	1.73834	2996.9922

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.73838	2997.5625	1.73904	3006.6944	1.73970	3015.8403
$\frac{1}{16}$	1.73843	2998.1328	1.73909	3007.2657	1.73975	3016.4124
$\frac{1}{8}$	1.73847	2998.7032	1.73913	3007.8369	1.73979	3016.9845
$\frac{3}{16}$	1.73851	2999.2737	1.73917	3008.4082	1.73983	3017.5567
$\frac{1}{4}$	1.73855	2999.8442	1.73921	3008.9796	1.73987	3018.1289
$\frac{5}{16}$	1.73859	3000.4147	1.73925	3009.5510	1.73991	3018.7012
$\frac{3}{8}$	1.73863	3000.9854	1.73929	3010.1225	1.73995	3019.2735
$\frac{7}{16}$	1.73867	3001.5560	1.73933	3010.6940	1.73999	3019.8459
$\frac{1}{2}$	1.73871	3002.1267	1.73937	3011.2656	1.74003	3020.4184
$\frac{9}{16}$	1.73876	3002.6975	1.73942	3011.8373	1.74007	3020.9909
$\frac{5}{8}$	1.73880	3003.2683	1.73946	3012.4090	1.74012	3021.5635
$1\frac{1}{16}$	1.73884	3003.8392	1.73950	3012.9807	1.74016	3022.1361
$\frac{3}{4}$	1.73888	3004.4102	1.73954	3013.5525	1.74020	3022.7088
$1\frac{3}{16}$	1.73892	3004.9811	1.73958	3014.1244	1.74024	3023.2815
$\frac{7}{8}$	1.73896	3005.5522	1.73962	3014.6963	1.74028	3023.8543
$1\frac{5}{16}$	1.73900	3006.1233	1.73966	3015.2683	1.74032	3024.4271

55'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.74036	3025.0000	1.74102	3034.1736	1.74168	3043.3611
1/16	1.74040	3025.5729	1.74106	3034.7474	1.74172	3043.9358
1/8	1.74044	3026.1459	1.74110	3035.3213	1.74176	3044.5105
3/16	1.74049	3026.7190	1.74114	3035.8952	1.74180	3045.0853
1/4	1.74053	3027.2921	1.74118	3036.4692	1.74184	3045.6602
5/16	1.74057	3027.8653	1.74123	3037.0432	1.74188	3046.2351
3/8	1.74061	3028.4385	1.74127	3037.6173	1.74192	3046.8100
7/16	1.74065	3029.0117	1.74131	3038.1914	1.74196	3047.3850
1/2	1.74069	3029.5851	1.74135	3038.7656	1.74200	3047.9601
9/16	1.74073	3030.1584	1.74139	3039.3399	1.74205	3048.5352
5/8	1.74077	3030.7319	1.74143	3039.9142	1.74209	3049.1104
11/16	1.74081	3031.3054	1.74147	3040.4885	1.74213	3049.6856
3/4	1.74086	3031.8789	1.74151	3041.0629	1.74217	3050.2609
13/16	1.74090	3032.4525	1.74155	3041.6374	1.74221	3050.8362
7/8	1.74094	3033.0262	1.74159	3042.2119	1.74225	3051.4116
15/16	1.74098	3033.5999	1.74164	3042.7865	1.74229	3051.9870
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.74233	3052.5625	1.74299	3061.7778	1.74364	3071.0069
1/16	1.74237	3053.1380	1.74303	3062.3542	1.74368	3071.5842
1/8	1.74241	3053.7137	1.74307	3062.9307	1.74372	3072.1616
3/16	1.74246	3054.2893	1.74311	3063.5072	1.74376	3072.7390
1/4	1.74250	3054.8650	1.74315	3064.0838	1.74380	3073.3164
5/16	1.74254	3055.4408	1.74319	3064.6604	1.74384	3073.8939
3/8	1.74258	3056.0166	1.74323	3065.2371	1.74389	3074.4715
7/16	1.74262	3056.5925	1.74327	3065.8138	1.74393	3075.0491
1/2	1.74266	3057.1684	1.74331	3066.3906	1.74397	3075.6267
9/16	1.74270	3057.7444	1.74335	3066.9675	1.74401	3076.2045
5/8	1.74274	3058.3204	1.74340	3067.5444	1.74405	3076.7822
11/16	1.74278	3058.8965	1.74344	3068.1213	1.74409	3077.3601
3/4	1.74282	3059.4727	1.74348	3068.6984	1.74413	3077.9379
13/16	1.74286	3060.0489	1.74352	3069.2754	1.74417	3078.5159
7/8	1.74291	3060.6251	1.74356	3069.8525	1.74421	3079.0939
15/16	1.74295	3061.2014	1.74360	3070.4297	1.74425	3079.6719

55'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.74429	3080.2500	1.74494	3089.5069	1.74560	3098.7778
1/16	1.74433	3080.8282	1.74499	3090.0860	1.74564	3099.3577
1/8	1.74437	3081.4064	1.74503	3090.6650	1.74568	3099.9376
3/16	1.74442	3081.9846	1.74507	3091.2442	1.74572	3100.5176
1/4	1.74446	3082.5629	1.74511	3091.8234	1.74576	3101.0977
5/16	1.74450	3083.1413	1.74515	3092.4026	1.74580	3101.6778
3/8	1.74454	3083.7197	1.74519	3092.9819	1.74584	3102.2579
7/16	1.74458	3084.2982	1.74523	3093.5612	1.74588	3102.8381
1/2	1.74462	3084.8767	1.74527	3094.1406	1.74592	3103.4184
9/16	1.74466	3085.4553	1.74531	3094.7201	1.74596	3103.9987
5/8	1.74470	3086.0340	1.74535	3095.2996	1.74600	3104.5791
11/16	1.74474	3086.6127	1.74539	3095.8792	1.74604	3105.1595
3/4	1.74478	3087.1914	1.74543	3096.4588	1.74608	3105.7400
13/16	1.74482	3087.7702	1.74547	3097.0384	1.74612	3106.3206
7/8	1.74486	3088.3491	1.74551	3097.6182	1.74616	3106.9012
15/16	1.74490	3088.9280	1.74555	3098.1979	1.74620	3107.4818
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.74624	3108.0625	1.74689	3117.3611	1.74754	3126.6736
1/16	1.74629	3108.6433	1.74693	3117.9427	1.74758	3127.2561
1/8	1.74633	3109.2241	1.74697	3118.5244	1.74762	3127.8387
3/16	1.74637	3109.8049	1.74702	3119.1061	1.74766	3128.4213
1/4	1.74641	3110.3859	1.74706	3119.6879	1.74770	3129.0039
5/16	1.74645	3110.9668	1.74710	3120.2698	1.74774	3129.5866
3/8	1.74649	3111.5479	1.74714	3120.8517	1.74778	3130.1694
7/16	1.74653	3112.1289	1.74718	3121.4336	1.74782	3130.7522
1/2	1.74657	3112.7101	1.74722	3122.0156	1.74786	3131.3351
9/16	1.74661	3113.2913	1.74726	3122.5977	1.74791	3131.9180
5/8	1.74665	3113.8725	1.74730	3123.1798	1.74795	3132.5010
11/16	1.74669	3114.4538	1.74734	3123.7620	1.74799	3133.0840
3/4	1.74673	3115.0352	1.74738	3124.3442	1.74803	3133.6671
13/16	1.74677	3115.6166	1.74742	3124.9265	1.74807	3134.2502
7/8	1.74681	3116.1980	1.74746	3125.5088	1.74811	3134.8334
15/16	1.74685	3116.7795	1.74750	3126.0912	1.74815	3135.4167

56'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.74819	3136.0000	1.74883	3145.3403	1.74948	3154.6944
1/16	1.74823	3136.5834	1.74887	3145.9245	1.74952	3155.2795
1/8	1.74827	3137.1668	1.74891	3146.5088	1.74956	3155.8647
3/16	1.74831	3137.7502	1.74895	3147.0931	1.74960	3156.4499
1/4	1.74835	3138.3338	1.74900	3147.6775	1.74964	3157.0352
5/16	1.74839	3138.9173	1.74904	3148.2620	1.74968	3157.6205
3/8	1.74843	3139.5010	1.74908	3148.8465	1.74972	3158.2058
7/16	1.74847	3140.0847	1.74912	3149.4310	1.74976	3158.7913
1/2	1.74851	3140.6684	1.74916	3150.0156	1.74980	3159.3767
9/16	1.74855	3141.2522	1.74920	3150.6003	1.74984	3159.9623
5/8	1.74859	3141.8360	1.74924	3151.1850	1.74988	3160.5479
11/16	1.74863	3142.4199	1.74928	3151.7698	1.74992	3161.1335
3/4	1.74867	3143.0039	1.74932	3152.3546	1.74996	3161.7192
13/16	1.74871	3143.5879	1.74936	3152.9395	1.75000	3162.3049
7/8	1.74875	3144.1720	1.74940	3153.5244	1.75004	3162.8907
15/16	1.74879	3144.7561	1.74944	3154.1094	1.75008	3163.4766

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.75012	3164.0625	1.75077	3173.4444	1.75141	3182.8403
1/16	1.75016	3164.6485	1.75081	3174.0313	1.75145	3183.4280
1/8	1.75020	3165.2345	1.75085	3174.6182	1.75149	3184.0157
3/16	1.75024	3165.8206	1.75089	3175.2051	1.75153	3184.6035
1/4	1.75028	3166.4067	1.75093	3175.7921	1.75157	3185.1914
5/16	1.75032	3166.9929	1.75097	3176.3792	1.75161	3185.7793
3/8	1.75036	3167.5791	1.75101	3176.9663	1.75165	3186.3673
7/16	1.75040	3168.1654	1.75105	3177.5534	1.75169	3186.9553
1/2	1.75044	3168.7517	1.75109	3178.1406	1.75173	3187.5434
9/16	1.75048	3169.3381	1.75113	3178.7279	1.75177	3188.1315
5/8	1.75052	3169.9246	1.75117	3179.3152	1.75181	3188.7197
11/16	1.75056	3170.5111	1.75121	3179.9026	1.75185	3189.3080
3/4	1.75060	3171.0977	1.75125	3180.4900	1.75189	3189.8963
13/16	1.75064	3171.6843	1.75129	3181.0775	1.75193	3190.4846
7/8	1.75069	3172.2709	1.75133	3181.6650	1.75197	3191.0730
15/16	1.75073	3172.8577	1.75137	3182.2526	1.75201	3191.6615

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.75205	3192.2500	1.75269	3201.6736	1.75333	3211.1111
$\frac{1}{16}$	1.75209	3192.8386	1.75273	3202.2630	1.75337	3211.7014
$\frac{1}{8}$	1.75213	3193.4272	1.75277	3202.8525	1.75341	3212.2918
$\frac{3}{16}$	1.75217	3194.0159	1.75281	3203.4421	1.75345	3212.8822
$\frac{1}{4}$	1.75221	3194.6046	1.75285	3204.0317	1.75349	3213.4727
$\frac{5}{16}$	1.75225	3195.1934	1.75289	3204.6213	1.75353	3214.0632
$\frac{3}{8}$	1.75229	3195.7822	1.75293	3205.2110	1.75357	3214.6538
$\frac{7}{16}$	1.75233	3196.3711	1.75297	3205.8008	1.75361	3215.2444
$\frac{1}{2}$	1.75237	3196.9601	1.75301	3206.3906	1.75365	3215.8351
$\frac{9}{16}$	1.75241	3197.5491	1.75305	3206.9805	1.75369	3216.4258
$\frac{5}{8}$	1.75245	3198.1381	1.75309	3207.5704	1.75373	3217.0166
$\frac{11}{16}$	1.75249	3198.7272	1.75313	3208.1604	1.75377	3217.6074
$\frac{3}{4}$	1.75253	3199.3164	1.75317	3208.7504	1.75381	3218.1984
$\frac{13}{16}$	1.75257	3199.9056	1.75321	3209.3405	1.75385	3218.7893
$\frac{7}{8}$	1.75261	3200.4949	1.75325	3209.9307	1.75389	3219.3803
$\frac{15}{16}$	1.75265	3201.0842	1.75329	3210.5209	1.75393	3219.9714

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.75397	3220.5625	1.75460	3230.0278	1.75524	3239.5069
$\frac{1}{16}$	1.75401	3221.1537	1.75464	3230.6198	1.75528	3240.0999
$\frac{1}{8}$	1.75405	3221.7449	1.75468	3231.2119	1.75532	3240.6928
$\frac{3}{16}$	1.75409	3222.3362	1.75472	3231.8041	1.75536	3241.2858
$\frac{1}{4}$	1.75413	3222.9275	1.75476	3232.3963	1.75540	3241.8789
$\frac{5}{16}$	1.75417	3223.5189	1.75480	3232.9885	1.75544	3242.4720
$\frac{3}{8}$	1.75420	3224.1104	1.75484	3233.5808	1.75548	3243.0652
$\frac{7}{16}$	1.75424	3224.7019	1.75488	3234.1732	1.75552	3243.6584
$\frac{1}{2}$	1.75428	3225.2934	1.75492	3234.7656	1.75556	3244.2517
$\frac{9}{16}$	1.75432	3225.8850	1.75496	3235.3581	1.75560	3244.8451
$\frac{5}{8}$	1.75436	3226.4767	1.75500	3235.9506	1.75564	3245.4385
$\frac{11}{16}$	1.75440	3227.0684	1.75504	3236.5432	1.75568	3246.0319
$\frac{3}{4}$	1.75444	3227.6602	1.75508	3237.1359	1.75572	3246.6254
$\frac{13}{16}$	1.75448	3228.2520	1.75512	3237.7285	1.75576	3247.2190
$\frac{7}{8}$	1.75452	3228.8439	1.75516	3238.3213	1.75580	3247.8126
$\frac{15}{16}$	1.75456	3229.4358	1.75520	3238.9141	1.75584	3248.4063

57'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.75587	3249.0000	1.75651	3258.5069	1.75714	3268.0278
1/10	1.75591	3249.5938	1.75655	3259.1016	1.75718	3268.6233
1/8	1.75595	3250.1876	1.75659	3259.6963	1.75722	3269.2189
3/16	1.75599	3250.7815	1.75663	3260.2910	1.75726	3269.8145
1/4	1.75603	3251.3754	1.75667	3260.8859	1.75730	3270.4102
5/16	1.75607	3251.9694	1.75671	3261.4807	1.75734	3271.0059
3/8	1.75611	3252.5635	1.75675	3262.0756	1.75738	3271.6017
7/16	1.75615	3253.1576	1.75679	3262.6706	1.75742	3272.1975
1/2	1.75619	3253.7517	1.75683	3263.2656	1.75746	3272.7934
9/16	1.75623	3254.3459	1.75687	3263.8607	1.75750	3273.3894
5/8	1.75627	3254.9402	1.75691	3264.4558	1.75754	3273.9854
11/16	1.75631	3255.5345	1.75694	3265.0510	1.75758	3274.5814
3/4	1.75635	3256.1289	1.75698	3265.6463	1.75762	3275.1775
13/16	1.75639	3256.7233	1.75702	3266.2416	1.75766	3275.7737
7/8	1.75643	3257.3178	1.75706	3266.8369	1.75770	3276.3699
15/16	1.75647	3257.9124	1.75710	3267.4323	1.75774	3276.9662

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.75778	3277.5625	1.75841	3287.1111	1.75904	3296.6736
1/16	1.75782	3278.1589	1.75845	3287.7084	1.75908	3297.2717
1/8	1.75785	3278.7553	1.75849	3288.3057	1.75912	3297.8699
3/16	1.75789	3279.3518	1.75853	3288.9030	1.75916	3298.4681
1/4	1.75793	3279.9484	1.75856	3289.5004	1.75920	3299.0664
5/16	1.75797	3280.5449	1.75860	3290.0979	1.75923	3299.6647
3/8	1.75801	3281.1416	1.75864	3290.6954	1.75927	3300.2631
7/16	1.75805	3281.7383	1.75868	3291.2930	1.75931	3300.8616
1/2	1.75809	3282.3351	1.75872	3291.8906	1.75935	3301.4601
9/16	1.75813	3282.9319	1.75876	3292.4883	1.75939	3302.0586
5/8	1.75817	3283.5288	1.75880	3293.0860	1.75943	3302.6572
11/16	1.75821	3284.1257	1.75884	3293.6838	1.75947	3303.2559
3/4	1.75825	3284.7227	1.75888	3294.2817	1.75951	3303.8546
13/16	1.75829	3285.3197	1.75892	3294.8796	1.75955	3304.4534
7/8	1.75833	3285.9168	1.75896	3295.4775	1.75959	3305.0522
15/16	1.75837	3286.5139	1.75900	3296.0755	1.75963	3305.6511

57'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.75967	3306.2500	1.76030	3315.8403	1.76092	3325.4444
1/16	1.75971	3306.8490	1.76034	3316.4401	1.76096	3326.0452
1/8	1.75975	3307.4480	1.76038	3317.0400	1.76100	3326.6459
3/16	1.75979	3308.0471	1.76041	3317.6400	1.76104	3327.2468
1/4	1.75983	3308.6463	1.76045	3318.2400	1.76108	3327.8477
5/16	1.75986	3309.2455	1.76049	3318.8401	1.76112	3328.4486
3/8	1.75990	3309.8447	1.76053	3319.4402	1.76116	3329.0496
7/16	1.75994	3310.4440	1.76057	3320.0404	1.76120	3329.6506
1/2	1.75998	3311.0434	1.76061	3320.6406	1.76124	3330.2517
9/16	1.76002	3311.6428	1.76065	3321.2409	1.76128	3330.8529
5/8	1.76006	3312.2423	1.76069	3321.8413	1.76132	3331.4541
11/16	1.76010	3312.8418	1.76073	3322.4417	1.76136	3332.0554
3/4	1.76014	3313.4414	1.76077	3323.0421	1.76140	3332.6567
13/16	1.76018	3314.0410	1.76081	3323.6426	1.76143	3333.2581
7/8	1.76022	3314.6407	1.76085	3324.2432	1.76147	3333.8595
15/16	1.76026	3315.2405	1.76089	3324.8438	1.76151	3334.4610
Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.76155	3335.0625	1.76218	3344.6944	1.76280	3354.3403
1/16	1.76159	3335.6641	1.76222	3345.2969	1.76284	3354.9436
1/8	1.76163	3336.2657	1.76226	3345.8994	1.76288	3355.5470
3/16	1.76167	3336.8674	1.76230	3346.5020	1.76292	3356.1504
1/4	1.76171	3337.4692	1.76233	3347.1046	1.76296	3356.7539
5/16	1.76175	3338.0710	1.76237	3347.7073	1.76300	3357.3574
3/8	1.76179	3338.6729	1.76241	3348.3100	1.76304	3357.9610
7/16	1.76183	3339.2748	1.76245	3348.9128	1.76308	3358.5647
1/2	1.76187	3339.8767	1.76249	3349.5156	1.76312	3359.1684
9/16	1.76190	3340.4788	1.76253	3350.1185	1.76315	3359.7722
5/8	1.76194	3341.0808	1.76257	3350.7215	1.76319	3360.3760
11/16	1.76198	3341.6830	1.76261	3351.3245	1.76323	3360.9798
3/4	1.76202	3342.2852	1.76265	3351.9275	1.76327	3361.5838
13/16	1.76206	3342.8874	1.76269	3352.5306	1.76331	3362.1877
7/8	1.76210	3343.4897	1.76273	3353.1338	1.76335	3362.7918
15/16	1.76214	3344.0920	1.76276	3353.7370	1.76339	3363.3959

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.76343	3364.0000	1.76405	3373.6736	1.76467	3383.3611
1/16	1.76347	3364.6042	1.76409	3374.2787	1.76471	3383.9670
1/8	1.76351	3365.2084	1.76413	3374.8838	1.76475	3384.5730
3/16	1.76354	3365.8127	1.76417	3375.4890	1.76479	3385.1791
1/4	1.76358	3366.4171	1.76421	3376.0942	1.76483	3385.7852
5/16	1.76362	3367.0215	1.76425	3376.6995	1.76487	3386.3913
3/8	1.76366	3367.6260	1.76429	3377.3048	1.76491	3386.9975
7/16	1.76370	3368.2305	1.76432	3377.9102	1.76495	3387.6038
1/2	1.76374	3368.8351	1.76436	3378.5156	1.76499	3388.2101
9/16	1.76378	3369.4397	1.76440	3379.1211	1.76502	3388.8164
5/8	1.76382	3370.0444	1.76444	3379.7267	1.76506	3389.4229
11/16	1.76386	3370.6491	1.76448	3380.3323	1.76510	3390.0293
3/4	1.76390	3371.2539	1.76452	3380.9379	1.76514	3390.6359
13/16	1.76393	3371.8588	1.76456	3381.5436	1.76518	3391.2424
7/8	1.76397	3372.4637	1.76460	3382.1494	1.76522	3391.8491
15/16	1.76401	3373.0686	1.76464	3382.7552	1.76526	3392.4558

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.76530	3393.0625	1.76592	3402.7778	1.76654	3412.5069
1/16	1.76533	3393.6693	1.76596	3403.3854	1.76658	3413.1155
1/8	1.76537	3394.2762	1.76599	3403.9932	1.76661	3413.7241
3/16	1.76541	3394.8831	1.76603	3404.6009	1.76665	3414.3327
1/4	1.76545	3395.4900	1.76607	3405.2088	1.76669	3414.9414
5/16	1.76549	3396.0970	1.76611	3405.8167	1.76673	3415.5502
3/8	1.76553	3396.7041	1.76615	3406.4246	1.76677	3416.1590
7/16	1.76557	3397.3112	1.76619	3407.0326	1.76681	3416.7678
1/2	1.76561	3397.9184	1.76623	3407.6406	1.76685	3417.3767
9/16	1.76565	3398.5256	1.76627	3408.2487	1.76689	3417.9857
5/8	1.76568	3399.1329	1.76630	3408.8569	1.76692	3418.5947
11/16	1.76572	3399.7403	1.76634	3409.4651	1.76696	3419.2038
3/4	1.76576	3400.3477	1.76638	3410.0734	1.76700	3419.8129
13/16	1.76580	3400.9551	1.76642	3410.6817	1.76704	3420.4221
7/8	1.76584	3401.5626	1.76646	3411.2900	1.76708	3421.0314
15/16	1.76588	3402.1702	1.76650	3411.8985	1.76712	3421.6407

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.76716	3422.2500	1.76777	3432.0069	1.76839	3441.7778
$\frac{1}{16}$	1.76719	3422.8594	1.76781	3432.6172	1.76843	3442.3889
$\frac{1}{8}$	1.76723	3423.4689	1.76785	3433.2275	1.76847	3443.0001
$\frac{3}{16}$	1.76727	3424.0784	1.76789	3433.8379	1.76851	3443.6114
$\frac{1}{4}$	1.76731	3424.6879	1.76793	3434.4484	1.76855	3444.2227
$\frac{5}{16}$	1.76735	3425.2976	1.76797	3435.0588	1.76858	3444.8340
$\frac{3}{8}$	1.76739	3425.9072	1.76801	3435.6694	1.76862	3445.4454
$\frac{7}{16}$	1.76743	3426.5170	1.76804	3436.2800	1.76866	3446.0569
$\frac{1}{2}$	1.76747	3427.1267	1.76808	3436.8906	1.76870	3446.6684
$\frac{9}{16}$	1.76750	3427.7366	1.76812	3437.5013	1.76874	3447.2800
$\frac{5}{8}$	1.76754	3428.3465	1.76816	3438.1121	1.76878	3447.8916
$1\frac{1}{16}$	1.76758	3428.9564	1.76820	3438.7229	1.76882	3448.5033
$\frac{3}{4}$	1.76762	3429.5664	1.76824	3439.3338	1.76885	3449.1150
$1\frac{3}{16}$	1.76766	3430.1765	1.76828	3439.9447	1.76889	3449.7268
$\frac{7}{8}$	1.76770	3430.7866	1.76831	3440.5557	1.76893	3450.3387
$1\frac{5}{16}$	1.76774	3431.3967	1.76835	3441.1667	1.76897	3450.9505

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.76901	3451.5625	1.76962	3461.3611	1.77024	3471.1736
$\frac{1}{16}$	1.76905	3452.1745	1.76966	3461.9740	1.77028	3471.7874
$\frac{1}{8}$	1.76908	3452.7866	1.76970	3462.5869	1.77031	3472.4012
$\frac{3}{16}$	1.76912	3453.3987	1.76974	3463.1999	1.77035	3473.0150
$\frac{1}{4}$	1.76916	3454.0109	1.76978	3463.8129	1.77039	3473.6289
$\frac{5}{16}$	1.76920	3454.6231	1.76982	3464.4260	1.77043	3474.2429
$\frac{3}{8}$	1.76924	3455.2354	1.76985	3465.0392	1.77047	3474.8569
$\frac{7}{16}$	1.76928	3455.8477	1.76989	3465.6524	1.77051	3475.4709
$\frac{1}{2}$	1.76932	3456.4601	1.76993	3466.2656	1.77055	3476.0851
$\frac{9}{16}$	1.76935	3457.0725	1.76997	3466.8789	1.77058	3476.6992
$\frac{5}{8}$	1.76939	3457.6850	1.77001	3467.4923	1.77062	3477.3135
$1\frac{1}{16}$	1.76943	3458.2976	1.77005	3468.1057	1.77066	3477.9278
$\frac{3}{4}$	1.76947	3458.9102	1.77008	3468.7192	1.77070	3478.5421
$1\frac{3}{16}$	1.76951	3459.5228	1.77012	3469.3327	1.77074	3479.1565
$\frac{7}{8}$	1.76955	3460.1355	1.77016	3469.9463	1.77078	3479.7709
$1\frac{5}{16}$	1.76959	3460.7483	1.77020	3470.5599	1.77081	3480.3854

59'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.77085	3481.0000	1.77146	3490.8403	1.77208	3500.6944
1/16	1.77089	3481.6146	1.77150	3491.4558	1.77212	3501.3108
1/8	1.77093	3482.2293	1.77154	3492.0713	1.77215	3501.9272
3/16	1.77097	3482.8440	1.77158	3492.6869	1.77219	3502.5436
1/4	1.77101	3483.4588	1.77162	3493.3025	1.77223	3503.1602
5/16	1.77104	3484.0736	1.77166	3493.9182	1.77227	3503.7767
3/8	1.77108	3484.6885	1.77169	3494.5340	1.77231	3504.3933
7/16	1.77112	3485.3034	1.77173	3495.1498	1.77234	3505.0100
1/2	1.77116	3485.9184	1.77177	3495.7656	1.77238	3505.6267
9/16	1.77120	3486.5334	1.77181	3496.3815	1.77242	3506.2435
5/8	1.77124	3487.1485	1.77185	3496.9975	1.77246	3506.8604
11/16	1.77127	3487.7637	1.77189	3497.6135	1.77250	3507.4772
3/4	1.77131	3488.3789	1.77192	3498.2296	1.77254	3508.0942
13/16	1.77135	3488.9942	1.77196	3498.8457	1.77257	3508.7112
7/8	1.77139	3489.6095	1.77200	3499.4619	1.77261	3509.3282
15/16	1.77143	3490.2249	1.77204	3500.0782	1.77265	3509.9453

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.77269	3510.5625	1.77330	3520.4444	1.77391	3530.3403
1/16	1.77273	3511.1797	1.77334	3521.0625	1.77395	3530.9592
1/8	1.77276	3511.7970	1.77337	3521.6807	1.77398	3531.5782
3/16	1.77280	3512.4143	1.77341	3522.2989	1.77402	3532.1973
1/4	1.77284	3513.0317	1.77345	3522.9171	1.77406	3532.8164
5/16	1.77288	3513.6491	1.77349	3523.5354	1.77410	3533.4356
3/8	1.77292	3514.2666	1.77353	3524.1538	1.77414	3534.0548
7/16	1.77296	3514.8841	1.77357	3524.7722	1.77417	3534.6741
1/2	1.77299	3515.5017	1.77360	3525.3906	1.77421	3535.2934
9/16	1.77303	3516.1194	1.77364	3526.0091	1.77425	3535.9128
5/8	1.77307	3516.7371	1.77368	3526.6277	1.77429	3536.5322
11/16	1.77311	3517.3548	1.77372	3527.2463	1.77433	3537.1517
3/4	1.77315	3517.9727	1.77376	3527.8650	1.77436	3537.7713
13/16	1.77318	3518.5905	1.77379	3528.4838	1.77440	3538.3909
7/8	1.77322	3519.2084	1.77383	3529.1025	1.77444	3539.0105
15/16	1.77326	3519.8264	1.77387	3529.7214	1.77448	3539.6302

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.77452	3540.2500	1.77512	3550.1736	1.77573	3560.1111
1/16	1.77455	3540.8698	1.77516	3550.7943	1.77577	3560.7327
1/8	1.77459	3541.4897	1.77520	3551.4150	1.77581	3561.3543
3/16	1.77463	3542.1096	1.77524	3552.0358	1.77585	3561.9759
1/4	1.77467	3542.7296	1.77528	3552.6567	1.77588	3562.5977
5/16	1.77471	3543.3496	1.77531	3553.2776	1.77592	3563.2194
3/8	1.77475	3543.9697	1.77535	3553.8985	1.77596	3563.8413
7/16	1.77478	3544.5899	1.77539	3554.5196	1.77600	3564.4631
1/2	1.77482	3545.2101	1.77543	3555.1406	1.77603	3565.0851
9/16	1.77486	3545.8303	1.77547	3555.7617	1.77607	3565.7071
5/8	1.77490	3546.4506	1.77550	3556.3829	1.77611	3566.3291
11/16	1.77493	3547.0710	1.77554	3557.0042	1.77615	3566.9512
3/4	1.77497	3547.6914	1.77558	3557.6254	1.77619	3567.5734
13/16	1.77501	3548.3119	1.77562	3558.2468	1.77622	3568.1956
7/8	1.77505	3548.9324	1.77566	3558.8682	1.77626	3568.8178
15/16	1.77509	3549.5530	1.77569	3559.4896	1.77630	3569.4401

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.77634	3570.0625	1.77694	3580.0278	1.77755	3590.0069
1/16	1.77638	3570.6849	1.77698	3580.6511	1.77759	3590.6311
1/8	1.77641	3571.3074	1.77702	3581.2744	1.77762	3591.2553
3/16	1.77645	3571.9299	1.77706	3581.8978	1.77766	3591.8796
1/4	1.77649	3572.5525	1.77709	3582.5213	1.77770	3592.5039
5/16	1.77653	3573.1752	1.77713	3583.1448	1.77774	3593.1283
3/8	1.77656	3573.7979	1.77717	3583.7683	1.77777	3593.7527
7/16	1.77660	3574.4206	1.77721	3584.3920	1.77781	3594.3772
1/2	1.77664	3575.0434	1.77725	3585.0156	1.77785	3595.0017
9/16	1.77668	3575.6663	1.77728	3585.6394	1.77789	3595.6263
5/8	1.77672	3576.2892	1.77732	3586.2631	1.77793	3596.2510
11/16	1.77675	3576.9121	1.77736	3586.8870	1.77796	3596.8757
3/4	1.77679	3577.5352	1.77740	3587.5109	1.77800	3597.5004
13/16	1.77683	3578.1582	1.77743	3588.1348	1.77804	3598.1252
7/8	1.77687	3578.7814	1.77747	3588.7588	1.77808	3598.7501
15/16	1.77691	3579.4045	1.77751	3589.3828	1.77811	3599.3750

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.77815	3600.0000	1.77875	3610.0069	1.77936	3620.0278
1/16	1.77819	3600.6250	1.77879	3610.6328	1.77939	3620.6545
1/8	1.77823	3601.2501	1.77883	3611.2588	1.77943	3621.2814
3/16	1.77826	3601.8752	1.77887	3611.8848	1.77947	3621.9082
1/4	1.77830	3602.5004	1.77890	3612.5109	1.77951	3622.5352
5/16	1.77834	3603.1257	1.77894	3613.1370	1.77954	3623.1621
3/8	1.77838	3603.7510	1.77898	3613.7631	1.77958	3623.7892
7/16	1.77842	3604.3763	1.77902	3614.3894	1.77962	3624.4163
1/2	1.77845	3605.0017	1.77906	3615.0156	1.77966	3625.0434
9/16	1.77849	3605.6272	1.77909	3615.6420	1.77969	3625.6706
5/8	1.77853	3606.2527	1.77913	3616.2683	1.77973	3626.2979
11/16	1.77857	3606.8783	1.77917	3616.8948	1.77977	3626.9252
3/4	1.77860	3607.5039	1.77921	3617.5213	1.77981	3627.5525
13/16	1.77864	3608.1296	1.77924	3618.1478	1.77984	3628.1799
7/8	1.77868	3608.7553	1.77928	3618.7744	1.77988	3628.8074
15/16	1.77872	3609.3811	1.77932	3619.4011	1.77992	3629.4349
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.77996	3630.0625	1.78056	3640.1111	1.78116	3650.1736
1/16	1.77999	3630.6901	1.78059	3640.7396	1.78119	3650.8030
1/8	1.78003	3631.3178	1.78063	3641.3682	1.78123	3651.4324
3/16	1.78007	3631.9456	1.78067	3641.9968	1.78127	3652.0619
1/4	1.78011	3632.5734	1.78071	3642.6254	1.78131	3652.6914
5/16	1.78014	3633.2012	1.78074	3643.2542	1.78134	3653.3210
3/8	1.78018	3633.8291	1.78078	3643.8829	1.78138	3653.9506
7/16	1.78022	3634.4571	1.78082	3644.5117	1.78142	3654.5803
1/2	1.78026	3635.0851	1.78086	3645.1406	1.78146	3655.2101
9/16	1.78029	3635.7131	1.78089	3645.7696	1.78149	3655.8399
5/8	1.78033	3636.3413	1.78093	3646.3985	1.78153	3656.4697
11/16	1.78037	3636.9694	1.78097	3647.0276	1.78157	3657.0996
3/4	1.78041	3637.5977	1.78101	3647.6567	1.78161	3657.7296
13/16	1.78044	3638.2259	1.78104	3648.2858	1.78164	3658.3596
7/8	1.78048	3638.8543	1.78108	3648.9150	1.78168	3658.9897
15/16	1.78052	3639.4827	1.78112	3649.5443	1.78172	3659.6198

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.78176	3660.2500	1.78235	3670.3403	1.78295	3680.4444
1/16	1.78179	3660.8802	1.78239	3670.9714	1.78299	3681.0764
1/8	1.78183	3661.5105	1.78243	3671.6025	1.78302	3681.7084
3/16	1.78187	3662.1409	1.78247	3672.2338	1.78306	3682.3405
1/4	1.78190	3662.7713	1.78250	3672.8650	1.78310	3682.9727
5/16	1.78194	3663.4017	1.78254	3673.4963	1.78314	3683.6048
3/8	1.78198	3664.0322	1.78258	3674.1277	1.78317	3684.2371
7/16	1.78202	3664.6628	1.78261	3674.7591	1.78321	3684.8694
1/2	1.78205	3665.2934	1.78265	3675.3906	1.78325	3685.5017
9/16	1.78209	3665.9241	1.78269	3676.0222	1.78329	3686.1341
5/8	1.78213	3666.5548	1.78273	3676.6538	1.78332	3686.7666
11/16	1.78217	3667.1856	1.78276	3677.2854	1.78336	3687.3991
3/4	1.78220	3667.8164	1.78280	3677.9171	1.78340	3688.0317
13/16	1.78224	3668.4473	1.78284	3678.5489	1.78343	3688.6643
7/8	1.78228	3669.0782	1.78288	3679.1807	1.78347	3689.2970
15/16	1.78232	3669.7092	1.78291	3679.8125	1.78351	3689.9297

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.78355	3690.5625	1.78414	3700.6944	1.78474	3710.8403
1/16	1.78358	3691.1953	1.78418	3701.3282	1.78477	3711.4749
1/8	1.78362	3691.8282	1.78422	3701.9619	1.78481	3712.1095
3/16	1.78366	3692.4612	1.78425	3702.5957	1.78485	3712.7442
1/4	1.78370	3693.0942	1.78429	3703.2296	1.78488	3713.3789
5/16	1.78373	3693.7272	1.78433	3703.8635	1.78492	3714.0137
3/8	1.78377	3694.3604	1.78436	3704.4975	1.78496	3714.6485
7/16	1.78381	3694.9935	1.78440	3705.1315	1.78500	3715.2834
1/2	1.78384	3695.6267	1.78444	3705.7656	1.78503	3715.9184
9/16	1.78388	3696.2600	1.78448	3706.3998	1.78507	3716.5534
5/8	1.78392	3696.8933	1.78451	3707.0340	1.78511	3717.1885
11/16	1.78396	3697.5267	1.78455	3707.6682	1.78514	3717.8236
3/4	1.78399	3698.1602	1.78459	3708.3025	1.78518	3718.4588
13/16	1.78403	3698.7936	1.78462	3708.9369	1.78522	3719.0940
7/8	1.78407	3699.4272	1.78466	3709.5713	1.78526	3719.7293
15/16	1.78410	3700.0608	1.78470	3710.2058	1.78529	3720.3646

61'

Fraction of an inch	0'		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.78533	3721.0000	1.78592	3731.1736	1.78651	3741.3611
1/16	1.78537	3721.6354	1.78596	3731.8099	1.78655	3741.9983
1/8	1.78540	3722.2709	1.78600	3732.4463	1.78659	3742.6355
3/16	1.78544	3722.9065	1.78603	3733.0827	1.78663	3743.2728
1/4	1.78548	3723.5421	1.78607	3733.7192	1.78666	3743.9102
5/16	1.78552	3724.1778	1.78611	3734.3557	1.78670	3744.5476
3/8	1.78555	3724.8135	1.78614	3734.9923	1.78674	3745.1850
7/16	1.78559	3725.4492	1.78618	3735.6289	1.78677	3745.8225
1/2	1.78563	3726.0851	1.78622	3736.2656	1.78681	3746.4601
9/16	1.78566	3726.7209	1.78626	3736.9024	1.78685	3747.0977
5/8	1.78570	3727.3569	1.78629	3737.5392	1.78688	3747.7354
11/16	1.78574	3727.9929	1.78633	3738.1760	1.78692	3748.3731
3/4	1.78577	3728.6289	1.78637	3738.8129	1.78696	3749.0109
13/16	1.78581	3729.2650	1.78640	3739.4499	1.78700	3749.6487
7/8	1.78585	3729.9012	1.78644	3740.0869	1.78703	3750.2866
15/16	1.78589	3730.5374	1.78648	3740.7240	1.78707	3750.9245

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.78711	3751.5625	1.78770	3761.7778	1.78829	3772.0069
1/16	1.78714	3752.2005	1.78773	3762.4167	1.78832	3772.6467
1/8	1.78718	3752.8387	1.78777	3763.0557	1.78836	3773.2866
3/16	1.78722	3753.4768	1.78781	3763.6947	1.78840	3773.9265
1/4	1.78725	3754.1150	1.78784	3764.3338	1.78843	3774.5664
5/16	1.78729	3754.7533	1.78788	3764.9729	1.78847	3775.2064
3/8	1.78733	3755.3916	1.78792	3765.6121	1.78851	3775.8465
7/16	1.78736	3756.0300	1.78795	3766.2513	1.78854	3776.4866
1/2	1.78740	3756.6684	1.78799	3766.8906	1.78858	3777.1267
9/16	1.78744	3757.3069	1.78803	3767.5300	1.78862	3777.7670
5/8	1.78748	3757.9454	1.78807	3768.1694	1.78865	3778.4072
11/16	1.78751	3758.5840	1.78810	3768.8088	1.78869	3779.0476
3/4	1.78755	3759.2227	1.78814	3769.4484	1.78873	3779.6879
13/16	1.78759	3759.8614	1.78818	3770.0879	1.78876	3780.3284
7/8	1.78762	3760.5001	1.78821	3770.7275	1.78880	3780.9689
15/16	1.78766	3761.1389	1.78825	3771.3672	1.78884	3781.6094

61'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.78888	3782.2500	1.78946	3792.5069	1.79005	3802.7778
1/16	1.78891	3782.8907	1.78950	3793.1485	1.79009	3803.4202
1/8	1.78895	3783.5314	1.78954	3793.7900	1.79012	3804.0626
3/16	1.78899	3784.1721	1.78957	3794.4317	1.79016	3804.7051
1/4	1.78902	3784.8129	1.78961	3795.0734	1.79020	3805.3477
5/16	1.78906	3785.4538	1.78965	3795.7151	1.79023	3805.9903
3/8	1.78910	3786.0947	1.78968	3796.3569	1.79027	3806.6329
7/16	1.78913	3786.7357	1.78972	3796.9987	1.79031	3807.2756
1/2	1.78917	3787.3767	1.78976	3797.6406	1.79034	3807.9184
9/16	1.78921	3788.0178	1.78979	3798.2826	1.79038	3808.5612
5/8	1.78924	3788.6590	1.78983	3798.9246	1.79042	3809.2041
11/16	1.78928	3789.3002	1.78987	3799.5667	1.79045	3809.8470
3/4	1.78932	3789.9414	1.78990	3800.2088	1.79049	3810.4900
13/16	1.78935	3790.5827	1.78994	3800.8509	1.79053	3811.1331
7/8	1.78939	3791.2241	1.78998	3801.4932	1.79056	3811.7762
15/16	1.78943	3791.8655	1.79001	3802.1354	1.79060	3812.4193
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.79064	3813.0625	1.79122	3823.3611	1.79181	3833.6736
1/16	1.79067	3813.7058	1.79126	3824.0052	1.79184	3834.3186
1/8	1.79071	3814.3491	1.79130	3824.6494	1.79188	3834.9637
3/16	1.79075	3814.9924	1.79133	3825.2936	1.79192	3835.6088
1/4	1.79078	3815.6359	1.79137	3825.9379	1.79195	3836.2539
5/16	1.79082	3816.2793	1.79141	3826.5823	1.79199	3836.8991
3/8	1.79086	3816.9229	1.79144	3827.2267	1.79203	3837.5444
7/16	1.79089	3817.5664	1.79148	3827.8711	1.79206	3838.1897
1/2	1.79093	3818.2101	1.79152	3828.5156	1.79210	3838.8351
9/16	1.79097	3818.8538	1.79155	3829.1602	1.79214	3839.4805
5/8	1.79100	3819.4975	1.79159	3829.8048	1.79217	3840.1260
11/16	1.79104	3820.1413	1.79162	3830.4495	1.79221	3840.7715
3/4	1.79108	3820.7852	1.79166	3831.0942	1.79225	3841.4171
13/16	1.79111	3821.4291	1.79170	3831.7390	1.79228	3842.0627
7/8	1.79115	3822.0730	1.79173	3832.3838	1.79232	3842.7084
15/16	1.79119	3822.7170	1.79177	3833.0287	1.79236	3843.3542

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.79239	3844.0000	1.79298	3854.3403	1.79356	3864.6944
1/16	1.79243	3844.6459	1.79301	3854.9870	1.79359	3865.3420
1/8	1.79246	3845.2918	1.79305	3855.6338	1.79363	3865.9897
3/16	1.79250	3845.9377	1.79308	3856.2806	1.79367	3866.6374
1/4	1.79254	3846.5838	1.79312	3856.9275	1.79370	3867.2852
5/16	1.79257	3847.2298	1.79316	3857.5745	1.79374	3867.9330
3/8	1.79261	3847.8760	1.79319	3858.2215	1.79378	3868.5808
7/16	1.79265	3848.5222	1.79323	3858.8685	1.79381	3869.2288
1/2	1.79268	3849.1684	1.79327	3859.5156	1.79385	3869.8767
9/16	1.79272	3849.8147	1.79330	3860.1628	1.79388	3870.5248
5/8	1.79276	3850.4610	1.79334	3860.8100	1.79392	3871.1729
11/16	1.79279	3851.1074	1.79338	3861.4573	1.79396	3871.8210
3/4	1.79283	3851.7539	1.79341	3862.1046	1.79399	3872.4692
13/16	1.79287	3852.4004	1.79345	3862.7520	1.79403	3873.1174
7/8	1.79290	3853.0470	1.79348	3863.3994	1.79407	3873.7657
15/16	1.79294	3853.6936	1.79352	3864.0469	1.79410	3874.4141

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.79414	3875.0625	1.79472	3885.4444	1.79530	3895.8403
1/16	1.79418	3875.7110	1.79476	3886.0938	1.79534	3896.4905
1/8	1.79421	3876.3595	1.79479	3886.7432	1.79537	3897.1407
3/16	1.79425	3877.0081	1.79483	3887.3926	1.79541	3897.7910
1/4	1.79428	3877.6567	1.79487	3888.0421	1.79545	3898.4414
5/16	1.79432	3878.3054	1.79490	3888.6917	1.79548	3899.0918
3/8	1.79436	3878.9541	1.79494	3889.3413	1.79552	3899.7423
7/16	1.79439	3879.6029	1.79497	3889.9909	1.79555	3900.3928
1/2	1.79443	3880.2517	1.79501	3890.6406	1.79559	3901.0434
9/16	1.79447	3880.9006	1.79505	3891.2904	1.79563	3901.6940
5/8	1.79450	3881.5496	1.79508	3891.9402	1.79566	3902.3447
11/16	1.79454	3882.1986	1.79512	3892.5901	1.79570	3902.9955
3/4	1.79458	3882.8477	1.79516	3893.2400	1.79574	3903.6463
13/16	1.79461	3883.4968	1.79519	3893.8900	1.79577	3904.2971
7/8	1.79465	3884.1459	1.79523	3894.5400	1.79581	3904.9480
15/16	1.79468	3884.7952	1.79526	3895.1901	1.79584	3905.5990

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.79588	3906.2500	1.79646	3916.6736	1.79704	3927.1111
1/16	1.79592	3906.9011	1.79649	3917.3255	1.79707	3927.7639
1/8	1.79595	3907.5522	1.79653	3917.9775	1.79711	3928.4168
3/16	1.79599	3908.2034	1.79657	3918.6296	1.79714	3929.0697
1/4	1.79602	3908.8546	1.79660	3919.2817	1.79718	3929.7227
5/16	1.79606	3909.5059	1.79664	3919.9338	1.79722	3930.3757
3/8	1.79610	3910.1572	1.79668	3920.5860	1.79725	3931.0288
7/16	1.79613	3910.8086	1.79671	3921.2383	1.79729	3931.6819
1/2	1.79617	3911.4601	1.79675	3921.8906	1.79733	3932.3351
9/16	1.79621	3912.1116	1.79678	3922.5430	1.79736	3932.9883
5/8	1.79624	3912.7631	1.79682	3923.1954	1.79740	3933.6416
11/16	1.79628	3913.4147	1.79686	3923.8479	1.79743	3934.2949
3/4	1.79631	3914.0664	1.79689	3924.5004	1.79747	3934.9484
13/16	1.79635	3914.7181	1.79693	3925.1530	1.79751	3935.6018
7/8	1.79639	3915.3699	1.79696	3925.8057	1.79754	3936.2553
15/16	1.79642	3916.0217	1.79700	3926.4584	1.79758	3936.9089

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.79761	3937.5625	1.79819	3948.0278	1.79877	3958.5069
1/16	1.79765	3938.2162	1.79823	3948.6823	1.79880	3959.1624
1/8	1.79769	3938.8699	1.79826	3949.3369	1.79884	3959.8178
3/16	1.79772	3939.5237	1.79830	3949.9916	1.79887	3960.4733
1/4	1.79776	3940.1775	1.79833	3950.6463	1.79891	3961.1289
5/16	1.79779	3940.8314	1.79837	3951.3010	1.79895	3961.7845
3/8	1.79783	3941.4854	1.79841	3951.9558	1.79898	3962.4402
7/16	1.79787	3942.1394	1.79844	3952.6107	1.79902	3963.0959
1/2	1.79790	3942.7934	1.79848	3953.2656	1.79905	3963.7517
9/16	1.79794	3943.4475	1.79851	3953.9206	1.79909	3964.4076
5/8	1.79797	3944.1017	1.79855	3954.5756	1.79913	3965.0635
11/16	1.79801	3944.7559	1.79859	3955.2307	1.79916	3965.7194
3/4	1.79805	3945.4102	1.79862	3955.8859	1.79920	3966.3754
13/16	1.79808	3946.0645	1.79866	3956.5410	1.79923	3967.0315
7/8	1.79812	3946.7189	1.79869	3957.1963	1.79927	3967.6876
15/16	1.79815	3947.3733	1.79873	3957.8516	1.79930	3968.3438

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.79934	3969.0000	1.79991	3979.5069	1.80049	3990.0278
1/16	1.79938	3969.6563	1.79995	3980.1641	1.80052	3990.6858
1/8	1.79941	3970.3126	1.79999	3980.8213	1.80056	3991.3439
3/16	1.79945	3970.9690	1.80002	3981.4785	1.80060	3992.0020
1/4	1.79948	3971.6254	1.80006	3982.1359	1.80063	3992.6602
5/16	1.79952	3972.2819	1.80009	3982.7932	1.80067	3993.3184
3/8	1.79956	3972.9385	1.80013	3983.4506	1.80070	3993.9767
7/16	1.79959	3973.5951	1.80017	3984.1081	1.80074	3994.6350
1/2	1.79963	3974.2517	1.80020	3984.7656	1.80077	3995.2934
9/16	1.79966	3974.9084	1.80024	3985.4232	1.80081	3995.9519
5/8	1.79970	3975.5652	1.80027	3986.0808	1.80085	3996.6104
11/16	1.79974	3976.2220	1.80031	3986.7385	1.80088	3997.2689
3/4	1.79977	3976.8789	1.80034	3987.3963	1.80092	3997.9275
13/16	1.79981	3977.5358	1.80038	3988.0541	1.80095	3998.5862
7/8	1.79984	3978.1928	1.80042	3988.7119	1.80099	3999.2449
15/16	1.79988	3978.8499	1.80045	3989.3698	1.80102	3999.9037

Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.80106	4000.5625	1.80163	4011.1111	1.80220	4021.6736
1/16	1.80110	4001.2214	1.80167	4011.7709	1.80224	4022.3342
1/8	1.80113	4001.8803	1.80170	4012.4307	1.80227	4022.9949
3/16	1.80117	4002.5393	1.80174	4013.0905	1.80231	4023.6556
1/4	1.80120	4003.1984	1.80178	4013.7504	1.80235	4024.3164
5/16	1.80124	4003.8574	1.80181	4014.4104	1.80238	4024.9772
3/8	1.80128	4004.5166	1.80185	4015.0704	1.80242	4025.6381
7/16	1.80131	4005.1758	1.80188	4015.7305	1.80245	4026.2991
1/2	1.80135	4005.8351	1.80192	4016.3906	1.80249	4026.9601
9/16	1.80138	4006.4944	1.80195	4017.0508	1.80252	4027.6211
5/8	1.80142	4007.1538	1.80199	4017.7110	1.80256	4028.2822
11/16	1.80145	4007.8132	1.80203	4018.3713	1.80260	4028.9434
3/4	1.80149	4008.4727	1.80206	4019.0317	1.80263	4029.6046
13/16	1.80153	4009.1322	1.80210	4019.6921	1.80267	4030.2659
7/8	1.80156	4009.7918	1.80213	4020.3525	1.80270	4030.9272
15/16	1.80160	4010.4514	1.80217	4021.0130	1.80274	4031.5886

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.80277	4032.2500	1.80334	4042.8403	1.80391	4053.4444
$\frac{1}{16}$	1.80281	4032.9115	1.80338	4043.5026	1.80395	4054.1077
$\frac{1}{8}$	1.80284	4033.5730	1.80341	4044.1650	1.80398	4054.7709
$\frac{3}{16}$	1.80288	4034.2346	1.80345	4044.8275	1.80402	4055.4343
$\frac{1}{4}$	1.80292	4034.8963	1.80349	4045.4900	1.80405	4056.0977
$\frac{5}{16}$	1.80295	4035.5580	1.80352	4046.1526	1.80409	4056.7611
$\frac{3}{8}$	1.80299	4036.2197	1.80356	4046.8152	1.80413	4057.4246
$\frac{7}{16}$	1.80302	4036.8815	1.80359	4047.4779	1.80416	4058.0881
$\frac{1}{2}$	1.80306	4037.5434	1.80363	4048.1406	1.80420	4058.7517
$\frac{9}{16}$	1.80309	4038.2053	1.80366	4048.8034	1.80423	4059.4154
$\frac{5}{8}$	1.80313	4038.8673	1.80370	4049.4663	1.80427	4060.0791
$\frac{11}{16}$	1.80317	4039.5293	1.80373	4050.1292	1.80430	4060.7429
$\frac{3}{4}$	1.80320	4040.1914	1.80377	4050.7921	1.80434	4061.4067
$\frac{13}{16}$	1.80324	4040.8535	1.80381	4051.4551	1.80437	4062.0706
$\frac{7}{8}$	1.80327	4041.5157	1.80384	4052.1182	1.80441	4062.7345
$\frac{15}{16}$	1.80331	4042.1780	1.80388	4052.7813	1.80444	4063.3985

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.80448	4064.0625	1.80505	4074.6944	1.80561	4085.3403
$\frac{1}{16}$	1.80452	4064.7266	1.80508	4075.3594	1.80565	4086.0061
$\frac{1}{8}$	1.80455	4065.3907	1.80512	4076.0244	1.80568	4086.6720
$\frac{3}{16}$	1.80459	4066.0549	1.80515	4076.6895	1.80572	4087.3379
$\frac{1}{4}$	1.80462	4066.7192	1.80519	4077.3546	1.80576	4088.0039
$\frac{5}{16}$	1.80466	4067.3835	1.80522	4078.0198	1.80579	4088.6699
$\frac{3}{8}$	1.80469	4068.0479	1.80526	4078.6850	1.80583	4089.3360
$\frac{7}{16}$	1.80473	4068.7123	1.80530	4079.3503	1.80586	4090.0022
$\frac{1}{2}$	1.80476	4069.3767	1.80533	4080.0156	1.80590	4090.6684
$\frac{9}{16}$	1.80480	4070.0413	1.80537	4080.6810	1.80593	4091.3347
$\frac{5}{8}$	1.80483	4070.7058	1.80540	4081.3465	1.80597	4092.0010
$\frac{11}{16}$	1.80487	4071.3705	1.80544	4082.0120	1.80600	4092.6673
$\frac{3}{4}$	1.80491	4072.0352	1.80547	4082.6775	1.80604	4093.3338
$\frac{13}{16}$	1.80494	4072.6999	1.80551	4083.3431	1.80607	4094.0002
$\frac{7}{8}$	1.80498	4073.3647	1.80554	4084.0088	1.80611	4094.6668
$\frac{15}{16}$	1.80501	4074.0295	1.80558	4084.6745	1.80614	4095.3334

64'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.80618	4096.0000	1.80675	4106.6736	1.80731	4117.3611
1/16	1.80622	4096.6667	1.80678	4107.3412	1.80734	4118.0295
1/8	1.80625	4097.3334	1.80682	4108.0088	1.80738	4118.6980
3/16	1.80629	4098.0002	1.80685	4108.6765	1.80742	4119.3666
1/4	1.80632	4098.6671	1.80689	4109.3442	1.80745	4120.0352
5/16	1.80636	4099.3340	1.80692	4110.0120	1.80749	4120.7038
3/8	1.80639	4100.0010	1.80696	4110.6798	1.80752	4121.3725
7/16	1.80643	4100.6680	1.80699	4111.3477	1.80756	4122.0413
1/2	1.80646	4101.3351	1.80703	4112.0156	1.80759	4122.7101
9/16	1.80650	4102.0022	1.80706	4112.6836	1.80763	4123.3789
5/8	1.80653	4102.6694	1.80710	4113.3517	1.80766	4124.0479
11/16	1.80657	4103.3366	1.80713	4114.0198	1.80770	4124.7168
3/4	1.80660	4104.0039	1.80717	4114.6879	1.80773	4125.3859
13/16	1.80664	4104.6713	1.80720	4115.3561	1.80777	4126.0549
7/8	1.80667	4105.3387	1.80724	4116.0244	1.80780	4126.7241
15/16	1.80671	4106.0061	1.80727	4116.6927	1.80784	4127.3933

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.80787	4128.0625	1.80844	4138.7778	1.80900	4149.5069
1/16	1.80791	4128.7318	1.80847	4139.4479	1.80903	4150.1780
1/8	1.80794	4129.4012	1.80851	4140.1182	1.80907	4150.8491
3/16	1.80798	4130.0706	1.80854	4140.7884	1.80910	4151.5202
1/4	1.80801	4130.7400	1.80858	4141.4588	1.80914	4152.1914
5/16	1.80805	4131.4095	1.80861	4142.1292	1.80917	4152.8627
3/8	1.80808	4132.0791	1.80865	4142.7996	1.80921	4153.5340
7/16	1.80812	4132.7487	1.80868	4143.4701	1.80924	4154.2053
1/2	1.80815	4133.4184	1.80872	4144.1406	1.80928	4154.8767
9/16	1.80819	4134.0881	1.80875	4144.8112	1.80931	4155.5482
5/8	1.80823	4134.7579	1.80879	4145.4819	1.80935	4156.2197
11/16	1.80826	4135.4278	1.80882	4146.1526	1.80938	4156.8913
3/4	1.80830	4136.0977	1.80886	4146.8234	1.80942	4157.5629
13/16	1.80833	4136.7676	1.80889	4147.4942	1.80945	4158.2346
7/8	1.80837	4137.4376	1.80893	4148.1650	1.80949	4158.9064
15/16	1.80840	4138.1077	1.80896	4148.8360	1.80952	4159.5782

64'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.80956	4160.2500	1.81012	4171.0069	1.81068	4181.7778
1/16	1.80959	4160.9219	1.81016	4171.6797	1.81072	4182.4514
1/8	1.80963	4161.5939	1.81019	4172.3525	1.81075	4183.1251
3/16	1.80966	4162.2659	1.81023	4173.0254	1.81079	4183.7989
1/4	1.80970	4162.9379	1.81026	4173.6984	1.81082	4184.4727
5/16	1.80974	4163.6101	1.81030	4174.3713	1.81086	4185.1465
3/8	1.80977	4164.2822	1.81033	4175.0444	1.81089	4185.8204
7/16	1.80981	4164.9545	1.81037	4175.7175	1.81093	4186.4944
1/2	1.80984	4165.6267	1.81040	4176.3906	1.81096	4187.1684
9/16	1.80988	4166.2991	1.81044	4177.0638	1.81100	4187.8425
5/8	1.80991	4166.9715	1.81047	4177.7371	1.81103	4188.5166
11/16	1.80995	4167.6439	1.81051	4178.4104	1.81107	4189.1908
3/4	1.80998	4168.3164	1.81054	4179.0838	1.81110	4189.8650
13/16	1.81002	4168.9890	1.81058	4179.7572	1.81113	4190.5393
7/8	1.81005	4169.6616	1.81061	4180.4307	1.81117	4191.2137
15/16	1.81009	4170.3342	1.81065	4181.1042	1.81120	4191.8880
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.81124	4192.5625	1.81180	4203.3611	1.81236	4214.1736
1/16	1.81127	4193.2370	1.81183	4204.0365	1.81239	4214.8499
1/8	1.81131	4193.9116	1.81187	4204.7119	1.81243	4215.5262
3/16	1.81134	4194.5862	1.81190	4205.3874	1.81246	4216.2025
1/4	1.81138	4195.2609	1.81194	4206.0629	1.81250	4216.8789
5/16	1.81141	4195.9356	1.81197	4206.7385	1.81253	4217.5554
3/8	1.81145	4196.6104	1.81201	4207.4142	1.81257	4218.2319
7/16	1.81148	4197.2852	1.81204	4208.0899	1.81260	4218.9084
1/2	1.81152	4197.9601	1.81208	4208.7656	1.81263	4219.5851
9/16	1.81155	4198.6350	1.81211	4209.4414	1.81267	4220.2617
5/8	1.81159	4199.3100	1.81215	4210.1173	1.81270	4220.9385
11/16	1.81162	4199.9851	1.81218	4210.7932	1.81274	4221.6153
3/4	1.81166	4200.6602	1.81222	4211.4692	1.81277	4222.2921
13/16	1.81169	4201.3353	1.81225	4212.1452	1.81281	4222.9690
7/8	1.81173	4202.0105	1.81229	4212.8213	1.81284	4223.6459
15/16	1.81176	4202.6858	1.81232	4213.4974	1.81288	4224.3229

65'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.81291	4225.0000	1.81347	4235.8403	1.81403	4246.6944
1/16	1.81295	4225.6771	1.81350	4236.5183	1.81406	4247.3733
1/8	1.81298	4226.3543	1.81354	4237.1963	1.81409	4248.0522
3/16	1.81302	4227.0315	1.81357	4237.8744	1.81413	4248.7311
1/4	1.81305	4227.7088	1.81361	4238.5525	1.81416	4249.4102
5/16	1.81309	4228.3861	1.81364	4239.2307	1.81420	4250.0892
3/8	1.81312	4229.0635	1.81368	4239.9090	1.81423	4250.7683
7/16	1.81316	4229.7409	1.81371	4240.5873	1.81427	4251.4475
1/2	1.81319	4230.4184	1.81375	4241.2656	1.81430	4252.1267
9/16	1.81323	4231.0959	1.81378	4241.9440	1.81434	4252.8060
5/8	1.81326	4231.7735	1.81382	4242.6225	1.81437	4253.4854
11/16	1.81330	4232.4512	1.81385	4243.3010	1.81441	4254.1647
3/4	1.81333	4233.1289	1.81389	4243.9796	1.81444	4254.8442
13/16	1.81337	4233.8067	1.81392	4244.6582	1.81448	4255.5237
7/8	1.81340	4234.4845	1.81396	4245.3369	1.81451	4256.2032
15/16	1.81344	4235.1624	1.81399	4246.0157	1.81455	4256.8828
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.81458	4257.5625	1.81513	4268.4444	1.81569	4279.3403
1/16	1.81462	4258.2422	1.81517	4269.1250	1.81572	4280.0217
1/8	1.81465	4258.9220	1.81520	4269.8057	1.81576	4280.7032
3/16	1.81468	4259.6018	1.81524	4270.4864	1.81579	4281.3848
1/4	1.81472	4260.2817	1.81527	4271.1671	1.81583	4282.0664
5/16	1.81475	4260.9616	1.81531	4271.8479	1.81586	4282.7481
3/8	1.81479	4261.6416	1.81534	4272.5288	1.81590	4283.4298
7/16	1.81482	4262.3216	1.81538	4273.2097	1.81593	4284.1116
1/2	1.81486	4263.0017	1.81541	4273.8906	1.81596	4284.7934
9/16	1.81489	4263.6819	1.81545	4274.5716	1.81600	4285.4753
5/8	1.81493	4264.3621	1.81548	4275.2527	1.81603	4286.1572
11/16	1.81496	4265.0423	1.81552	4275.9338	1.81607	4286.8392
3/4	1.81500	4265.7227	1.81555	4276.6150	1.81610	4287.5213
13/16	1.81503	4266.4030	1.81558	4277.2963	1.81614	4288.2034
7/8	1.81507	4267.0834	1.81562	4277.9775	1.81617	4288.8855
15/16	1.81510	4267.7639	1.81565	4278.6589	1.81621	4289.5677

65'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.81624	4290.2500	1.81679	4301.1736	1.81734	4312.1111
1/16	1.81628	4290.9323	1.81683	4301.8568	1.81738	4312.7952
1/8	1.81631	4291.6147	1.81686	4302.5400	1.81741	4313.4793
3/16	1.81634	4292.2971	1.81690	4303.2233	1.81745	4314.1634
1/4	1.81638	4292.9796	1.81693	4303.9067	1.81748	4314.8477
5/16	1.81641	4293.6621	1.81697	4304.5901	1.81752	4315.5319
3/8	1.81645	4294.3447	1.81700	4305.2735	1.81755	4316.2163
7/16	1.81648	4295.0274	1.81703	4305.9571	1.81759	4316.9006
1/2	1.81652	4295.7101	1.81707	4306.6406	1.81762	4317.5851
9/16	1.81655	4296.3928	1.81710	4307.3242	1.81765	4318.2696
5/8	1.81659	4297.0756	1.81714	4308.0079	1.81769	4318.9541
11/16	1.81662	4297.7585	1.81717	4308.6917	1.81772	4319.6387
3/4	1.81666	4298.4414	1.81721	4309.3754	1.81776	4320.3234
13/16	1.81669	4299.1244	1.81724	4310.0593	1.81779	4321.0081
7/8	1.81672	4299.8074	1.81728	4310.7432	1.81783	4321.6928
15/16	1.81676	4300.4905	1.81731	4311.4271	1.81786	4322.3776

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.81790	4323.0625	1.81845	4334.0278	1.81900	4345.0069
1/16	1.81793	4323.7474	1.81848	4334.7136	1.81903	4345.6936
1/8	1.81796	4324.4324	1.81851	4335.3994	1.81906	4346.3803
3/16	1.81800	4325.1174	1.81855	4336.0853	1.81910	4347.0671
1/4	1.81803	4325.8025	1.81858	4336.7713	1.81913	4347.7539
5/16	1.81807	4326.4877	1.81862	4337.4573	1.81917	4348.4408
3/8	1.81810	4327.1729	1.81865	4338.1433	1.81920	4349.1277
7/16	1.81814	4327.8581	1.81869	4338.8295	1.81924	4349.8147
1/2	1.81817	4328.5434	1.81872	4339.5156	1.81927	4350.5017
9/16	1.81821	4329.2288	1.81875	4340.2019	1.81930	4351.1888
5/8	1.81824	4329.9142	1.81879	4340.8881	1.81934	4351.8760
11/16	1.81827	4330.5996	1.81882	4341.5745	1.81937	4352.5632
3/4	1.81831	4331.2852	1.81886	4342.2609	1.81941	4353.2504
13/16	1.81834	4331.9707	1.81889	4342.9473	1.81944	4353.9377
7/8	1.81838	4332.6564	1.81893	4343.6338	1.81948	4354.6251
15/16	1.81841	4333.3420	1.81896	4344.3203	1.81951	4355.3125

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.81954	4356.0000	1.82009	4367.0069	1.82064	4378.0278
1/16	1.81958	4356.6875	1.82013	4367.6953	1.82067	4378.7170
1/8	1.81961	4357.3751	1.82016	4368.3838	1.82071	4379.4064
3/16	1.81965	4358.0627	1.82019	4369.0723	1.82074	4380.0957
1/4	1.81968	4358.7504	1.82023	4369.7609	1.82078	4380.7852
5/16	1.81972	4359.4382	1.82026	4370.4495	1.82081	4381.4746
3/8	1.81975	4360.1260	1.82030	4371.1381	1.82084	4382.1642
7/16	1.81978	4360.8138	1.82033	4371.8269	1.82088	4382.8538
1/2	1.81982	4361.5017	1.82037	4372.5156	1.82091	4383.5434
9/16	1.81985	4362.1897	1.82040	4373.2045	1.82095	4384.2331
5/8	1.81989	4362.8777	1.82043	4373.8933	1.82098	4384.9229
11/16	1.81992	4363.5658	1.82047	4374.5823	1.82102	4385.6127
3/4	1.81996	4364.2539	1.82050	4375.2713	1.82105	4386.3025
13/16	1.81999	4364.9421	1.82054	4375.9603	1.82108	4386.9924
7/8	1.82002	4365.6303	1.82057	4376.6494	1.82112	4387.6824
15/16	1.82006	4366.3186	1.82061	4377.3386	1.82115	4388.3724

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.82119	4389.0625	1.82173	4400.1111	1.82228	4411.1736
1/16	1.82122	4389.7526	1.82177	4400.8021	1.82231	4411.8655
1/8	1.82125	4390.4428	1.82180	4401.4932	1.82235	4412.5574
3/16	1.82129	4391.1331	1.82183	4402.1843	1.82238	4413.2494
1/4	1.82132	4391.8234	1.82187	4402.8754	1.82241	4413.9414
5/16	1.82136	4392.5137	1.82190	4403.5667	1.82245	4414.6335
3/8	1.82139	4393.2041	1.82194	4404.2579	1.82248	4415.3256
7/16	1.82142	4393.8946	1.82197	4404.9492	1.82252	4416.0178
1/2	1.82146	4394.5851	1.82200	4405.6406	1.82255	4416.7101
9/16	1.82149	4395.2756	1.82204	4406.3321	1.82258	4417.4024
5/8	1.82153	4395.9663	1.82207	4407.0235	1.82262	4418.0947
11/16	1.82156	4396.6569	1.82211	4407.7151	1.82265	4418.7871
3/4	1.82160	4397.3477	1.82214	4408.4067	1.82269	4419.4796
13/16	1.82163	4398.0384	1.82217	4409.0983	1.82272	4420.1721
7/8	1.82166	4398.7293	1.82221	4409.7900	1.82275	4420.8647
15/16	1.82170	4399.4202	1.82224	4410.4818	1.82279	4421.5573

Fraction of an Inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.82282	4422.2500	1.82337	4433.3403	1.82391	4444.4444
1/16	1.82286	4422.9427	1.82340	4434.0339	1.82394	4445.1389
1/8	1.82289	4423.6355	1.82343	4434.7275	1.82398	4445.8334
3/16	1.82292	4424.3284	1.82347	4435.4213	1.82401	4446.5280
1/4	1.82296	4425.0213	1.82350	4436.1150	1.82404	4447.2227
5/16	1.82299	4425.7142	1.82354	4436.8088	1.82408	4447.9173
3/8	1.82303	4426.4072	1.82357	4437.5027	1.82411	4448.6121
7/16	1.82306	4427.1003	1.82360	4438.1966	1.82415	4449.3069
1/2	1.82309	4427.7934	1.82364	4438.8906	1.82418	4450.0017
9/16	1.82313	4428.4866	1.82367	4439.5847	1.82421	4450.6966
5/8	1.82316	4429.1798	1.82371	4440.2788	1.82425	4451.3916
11/16	1.82320	4429.8731	1.82374	4440.9729	1.82428	4452.0866
3/4	1.82323	4430.5664	1.82377	4441.6671	1.82432	4452.7817
13/16	1.82326	4431.2598	1.82381	4442.3614	1.82435	4453.4768
7/8	1.82330	4431.9532	1.82384	4443.0557	1.82438	4454.1720
15/16	1.82333	4432.6467	1.82387	4443.7500	1.82442	4454.8672

Fraction of an Inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.82445	4455.5625	1.82499	4466.6944	1.82553	4477.8403
1/16	1.82449	4456.2578	1.82503	4467.3907	1.82557	4478.5374
1/8	1.82452	4456.9532	1.82506	4468.0869	1.82560	4479.2345
3/16	1.82455	4457.6487	1.82509	4468.7832	1.82564	4479.9317
1/4	1.82459	4458.3442	1.82513	4469.4796	1.82567	4480.6289
5/16	1.82462	4459.0397	1.82516	4470.1760	1.82570	4481.3262
3/8	1.82465	4459.7354	1.82520	4470.8725	1.82574	4482.0235
7/16	1.82469	4460.4310	1.82523	4471.5690	1.82577	4482.7209
1/2	1.82472	4461.1267	1.82526	4472.2656	1.82580	4483.4184
9/16	1.82476	4461.8225	1.82530	4472.9623	1.82584	4484.1159
5/8	1.82479	4462.5183	1.82533	4473.6590	1.82587	4484.8135
11/16	1.82482	4463.2142	1.82537	4474.3557	1.82591	4485.5111
3/4	1.82486	4463.9102	1.82540	4475.0525	1.82594	4486.2088
13/16	1.82489	4464.6061	1.82543	4475.7494	1.82597	4486.9065
7/8	1.82493	4465.3022	1.82547	4476.4463	1.82601	4487.6043
15/16	1.82496	4465.9983	1.82550	4477.1433	1.82604	4488.3021

67'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.82607	4489.0000	1.82661	4500.1736	1.82715	4511.3611
1/16	1.82611	4489.6979	1.82665	4500.8724	1.82719	4512.0608
1/8	1.82614	4490.3959	1.82668	4501.5713	1.82722	4512.7605
3/16	1.82618	4491.0940	1.82672	4502.2702	1.82725	4513.4603
1/4	1.82621	4491.7921	1.82675	4502.9692	1.82729	4514.1602
5/16	1.82624	4492.4903	1.82678	4503.6682	1.82732	4514.8601
3/8	1.82628	4493.1885	1.82682	4504.3673	1.82736	4515.5600
7/16	1.82631	4493.8867	1.82685	4505.0664	1.82739	4516.2600
1/2	1.82634	4494.5851	1.82688	4505.7656	1.82742	4516.9601
9/16	1.82638	4495.2834	1.82692	4506.4649	1.82746	4517.6602
5/8	1.82641	4495.9819	1.82695	4507.1642	1.82749	4518.3604
11/16	1.82645	4496.6804	1.82699	4507.8635	1.82752	4519.0606
3/4	1.82648	4497.3789	1.82702	4508.5629	1.82756	4519.7609
13/16	1.82651	4498.0775	1.82705	4509.2624	1.82759	4520.4612
7/8	1.82655	4498.7762	1.82709	4509.9619	1.82763	4521.1616
15/16	1.82658	4499.4749	1.82712	4510.6615	1.82766	4521.8620
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.82769	4522.5625	1.82823	4533.7778	1.82877	4545.0069
1/16	1.82773	4523.2630	1.82826	4534.4792	1.82880	4545.7092
1/8	1.82776	4523.9637	1.82830	4535.1807	1.82883	4546.4116
3/16	1.82779	4524.6643	1.82833	4535.8822	1.82887	4547.1140
1/4	1.82783	4525.3650	1.82836	4536.5838	1.82890	4547.8164
5/16	1.82786	4526.0658	1.82840	4537.2854	1.82894	4548.5189
3/8	1.82789	4526.7666	1.82843	4537.9871	1.82897	4549.2215
7/16	1.82793	4527.4675	1.82847	4538.6888	1.82900	4549.9241
1/2	1.82796	4528.1684	1.82850	4539.3906	1.82904	4550.6267
9/16	1.82799	4528.8694	1.82853	4540.0925	1.82907	4551.3295
5/8	1.82803	4529.5704	1.82857	4540.7944	1.82910	4552.0322
11/16	1.82806	4530.2715	1.82860	4541.4963	1.82914	4552.7351
3/4	1.82810	4530.9727	1.82863	4542.1984	1.82917	4553.4379
13/16	1.82813	4531.6739	1.82867	4542.9004	1.82920	4554.1409
7/8	1.82816	4532.3751	1.82870	4543.6025	1.82924	4554.8439
15/16	1.82820	4533.0764	1.82873	4544.3047	1.82927	4555.5469

67'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.82930	4556.2500	1.82984	4567.5069	1.83037	4578.7778
1/16	1.82934	4556.9532	1.82987	4568.2110	1.83041	4579.4827
1/8	1.82937	4557.6564	1.82991	4568.9150	1.83044	4580.1876
3/16	1.82940	4558.3596	1.82994	4569.6192	1.83048	4580.8926
1/4	1.82944	4559.0629	1.82997	4570.3234	1.83051	4581.5977
5/16	1.82947	4559.7663	1.83001	4571.0276	1.83054	4582.3028
3/8	1.82950	4560.4697	1.83004	4571.7319	1.83058	4583.0079
7/16	1.82954	4561.1732	1.83007	4572.4362	1.83061	4583.7131
1/2	1.82957	4561.8767	1.83011	4573.1406	1.83064	4584.4184
9/16	1.82961	4562.5803	1.83014	4573.8451	1.83068	4585.1237
5/8	1.82964	4563.2840	1.83017	4574.5496	1.83071	4585.8291
11/16	1.82967	4563.9877	1.83021	4575.2542	1.83074	4586.5345
3/4	1.82971	4564.6914	1.83024	4575.9588	1.83078	4587.2400
13/16	1.82974	4565.3952	1.83027	4576.6634	1.83081	4587.9456
7/8	1.82977	4566.0991	1.83031	4577.3682	1.83084	4588.6512
15/16	1.82981	4566.8030	1.83034	4578.0729	1.83088	4589.3568
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.83091	4590.0625	1.83144	4601.3611	1.83198	4612.6736
1/16	1.83094	4590.7683	1.83148	4602.0677	1.83201	4613.3811
1/8	1.83098	4591.4741	1.83151	4602.7744	1.83204	4614.0887
3/16	1.83101	4592.1799	1.83154	4603.4811	1.83208	4614.7963
1/4	1.83104	4592.8859	1.83158	4604.1879	1.83211	4615.5039
5/16	1.83108	4593.5918	1.83161	4604.8948	1.83214	4616.2116
3/8	1.83111	4594.2979	1.83164	4605.6017	1.83218	4616.9194
7/16	1.83114	4595.0039	1.83168	4606.3086	1.83221	4617.6272
1/2	1.83118	4595.7101	1.83171	4607.0156	1.83224	4618.3351
9/16	1.83121	4596.4163	1.83174	4607.7227	1.83228	4619.0430
5/8	1.83124	4597.1225	1.83178	4608.4298	1.83231	4619.7510
11/16	1.83128	4597.8288	1.83181	4609.1370	1.83234	4620.4590
3/4	1.83131	4598.5352	1.83184	4609.8442	1.83238	4621.1671
13/16	1.83134	4599.2416	1.83188	4610.5515	1.83241	4621.8752
7/8	1.83138	4599.9480	1.83191	4611.2588	1.83244	4622.5834
15/16	1.83141	4600.6545	1.83194	4611.9662	1.83248	4623.2917

68'

Fraction of an Inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.83251	4624.0000	1.83304	4635.3403	1.83357	4646.6944
1/16	1.83254	4624.7084	1.83307	4636.0495	1.83361	4647.4045
1/8	1.83258	4625.4168	1.83311	4636.7588	1.83364	4648.1147
3/16	1.83261	4626.1252	1.83314	4637.4681	1.83367	4648.8249
1/4	1.83264	4626.8338	1.83317	4638.1775	1.83370	4649.5352
5/16	1.83268	4627.5423	1.83321	4638.8870	1.83374	4650.2455
3/8	1.83271	4628.2510	1.83324	4639.5965	1.83377	4650.9558
7/16	1.83274	4628.9597	1.83327	4640.3060	1.83380	4651.6663
1/2	1.83277	4629.6684	1.83331	4641.0156	1.83384	4652.3767
9/16	1.83281	4630.3772	1.83334	4641.7253	1.83387	4653.0873
5/8	1.83284	4631.0860	1.83337	4642.4350	1.83390	4653.7979
11/16	1.83287	4631.7949	1.83341	4643.1448	1.83394	4654.5085
3/4	1.83291	4632.5039	1.83344	4643.8546	1.83397	4655.2192
13/16	1.83294	4633.2129	1.83347	4644.5645	1.83400	4655.9299
7/8	1.83297	4633.9220	1.83351	4645.2744	1.83404	4656.6407
15/16	1.83301	4634.6311	1.83354	4645.9844	1.83407	4657.3516

Fraction of an Inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.83410	4658.0625	1.83463	4669.4444	1.83516	4680.8403
1/16	1.83414	4658.7735	1.83467	4670.1563	1.83519	4681.5530
1/8	1.83417	4659.4845	1.83470	4670.8682	1.83523	4682.2657
3/16	1.83420	4660.1956	1.83473	4671.5801	1.83526	4682.9785
1/4	1.83424	4660.9067	1.83476	4672.2921	1.83529	4683.6914
5/16	1.83427	4661.6179	1.83480	4673.0042	1.83533	4684.4043
3/8	1.83430	4662.3291	1.83483	4673.7163	1.83536	4685.1173
7/16	1.83433	4663.0404	1.83486	4674.4284	1.83539	4685.8303
1/2	1.83437	4663.7517	1.83490	4675.1406	1.83543	4686.5434
9/16	1.83440	4664.4631	1.83493	4675.8529	1.83546	4687.2565
5/8	1.83443	4665.1746	1.83496	4676.5652	1.83549	4687.9697
11/16	1.83447	4665.8861	1.83500	4677.2776	1.83553	4688.6830
3/4	1.83450	4666.5977	1.83503	4677.9900	1.83556	4689.3963
13/16	1.83453	4667.3093	1.83506	4678.7025	1.83559	4690.1096
7/8	1.83457	4668.0209	1.83510	4679.4150	1.83562	4690.8230
15/16	1.83460	4668.7327	1.83513	4680.1276	1.83566	4691.5365

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.83569	4692.2500	1.83622	4703.6736	1.83675	4715.1111
1/16	1.83572	4692.9636	1.83625	4704.3880	1.83678	4715.8264
1/8	1.83576	4693.6772	1.83628	4705.1025	1.83681	4716.5418
3/16	1.83579	4694.3909	1.83632	4705.8171	1.83684	4717.2572
1/4	1.83582	4695.1046	1.83635	4706.5317	1.83688	4717.9727
5/16	1.83586	4695.8184	1.83638	4707.2463	1.83691	4718.6882
3/8	1.83589	4696.5322	1.83642	4707.9610	1.83694	4719.4038
7/16	1.83592	4697.2461	1.83645	4708.6758	1.83698	4720.1194
1/2	1.83595	4697.9601	1.83648	4709.3906	1.83701	4720.8351
9/16	1.83599	4698.6741	1.83652	4710.1055	1.83704	4721.5508
5/8	1.83602	4699.3881	1.83655	4710.8204	1.83708	4722.2666
11/16	1.83605	4700.1022	1.83658	4711.5354	1.83711	4722.9824
3/4	1.83609	4700.8164	1.83661	4712.2504	1.83714	4723.6984
13/16	1.83612	4701.5306	1.83665	4712.9655	1.83717	4724.4143
7/8	1.83615	4702.2449	1.83668	4713.6807	1.83721	4725.1303
15/16	1.83619	4702.9592	1.83671	4714.3959	1.83724	4725.8464
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.83727	4726.5625	1.83780	4738.0278	1.83832	4749.5069
1/16	1.83731	4727.2787	1.83783	4738.7448	1.83836	4750.2249
1/8	1.83734	4727.9949	1.83786	4739.4619	1.83839	4750.9428
3/16	1.83737	4728.7112	1.83790	4740.1791	1.83842	4751.6608
1/4	1.83740	4729.4275	1.83793	4740.8963	1.83846	4752.3789
5/16	1.83744	4730.1439	1.83796	4741.6135	1.83849	4753.0970
3/8	1.83747	4730.8604	1.83800	4742.3308	1.83852	4753.8152
7/16	1.83750	4731.5769	1.83803	4743.0482	1.83855	4754.5334
1/2	1.83754	4732.2934	1.83806	4743.7656	1.83859	4755.2517
9/16	1.83757	4733.0100	1.83809	4744.4831	1.83862	4755.9701
5/8	1.83760	4733.7267	1.83813	4745.2006	1.83865	4756.6885
11/16	1.83763	4734.4434	1.83816	4745.9182	1.83869	4757.4069
3/4	1.83767	4735.1602	1.83819	4746.6359	1.83872	4758.1254
13/16	1.83770	4735.8770	1.83823	4747.3535	1.83875	4758.8440
7/8	1.83773	4736.5939	1.83826	4748.0713	1.83878	4759.5626
15/16	1.83777	4737.3108	1.83829	4748.7891	1.83882	4760.2813

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.83885	4761.0000	1.83937	4772.5069	1.83990	4784.0278
1/16	1.83888	4761.7188	1.83941	4773.2266	1.83993	4784.7483
1/8	1.83891	4762.4376	1.83944	4773.9463	1.83996	4785.4689
3/16	1.83895	4763.1565	1.83947	4774.6660	1.83999	4786.1895
1/4	1.83898	4763.8754	1.83950	4775.3859	1.84003	4786.9102
5/16	1.83901	4764.5944	1.83954	4776.1057	1.84006	4787.6309
3/8	1.83905	4765.3135	1.83957	4776.8256	1.84009	4788.3517
7/16	1.83908	4766.0326	1.83960	4777.5456	1.84013	4789.0725
1/2	1.83911	4766.7517	1.83964	4778.2656	1.84016	4789.7934
9/16	1.83914	4767.4709	1.83967	4778.9857	1.84019	4790.5144
5/8	1.83918	4768.1902	1.83970	4779.7058	1.84022	4791.2354
11/16	1.83921	4768.9095	1.83973	4780.4260	1.84026	4791.9564
3/4	1.83924	4769.6289	1.83977	4781.1463	1.84029	4792.6775
13/16	1.83928	4770.3483	1.83980	4781.8666	1.84032	4793.3987
7/8	1.83931	4771.0678	1.83983	4782.5869	1.84035	4794.1199
15/16	1.83934	4771.7874	1.83986	4783.3073	1.84039	4794.8412

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84042	4795.5625	1.84094	4807.1111	1.84146	4818.6736
1/16	1.84045	4796.2839	1.84097	4807.8334	1.84150	4819.3967
1/8	1.84049	4797.0053	1.84101	4808.5557	1.84153	4820.1199
3/16	1.84052	4797.7268	1.84104	4809.2780	1.84156	4820.8431
1/4	1.84055	4798.4484	1.84107	4810.0004	1.84159	4821.5664
5/16	1.84058	4799.1699	1.84111	4810.7229	1.84163	4822.2897
3/8	1.84062	4799.8916	1.84114	4811.4454	1.84166	4823.0131
7/16	1.84065	4800.6133	1.84117	4812.1680	1.84169	4823.7366
1/2	1.84068	4801.3351	1.84120	4812.8906	1.84172	4824.4601
9/16	1.84071	4802.0569	1.84124	4813.6133	1.84176	4825.1836
5/8	1.84075	4802.7788	1.84127	4814.3360	1.84179	4825.9072
11/16	1.84078	4803.5007	1.84130	4815.0588	1.84182	4826.6309
3/4	1.84081	4804.2227	1.84133	4815.7817	1.84185	4827.3546
13/16	1.84084	4804.9447	1.84137	4816.5046	1.84189	4828.0784
7/8	1.84088	4805.6668	1.84140	4817.2275	1.84192	4828.8022
15/16	1.84091	4806.3889	1.84143	4817.9505	1.84195	4829.5261

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84198	4830.2500	1.84251	4841.8403	1.84303	4853.4444
1/16	1.84202	4830.9740	1.84254	4842.5651	1.84306	4854.1702
1/8	1.84205	4831.6980	1.84257	4843.2900	1.84309	4854.8959
3/16	1.84208	4832.4221	1.84260	4844.0150	1.84312	4855.6218
1/4	1.84211	4833.1463	1.84264	4844.7400	1.84315	4856.3477
5/16	1.84215	4833.8705	1.84267	4845.4651	1.84319	4857.0736
3/8	1.84218	4834.5947	1.84270	4846.1902	1.84322	4857.7996
7/16	1.84221	4835.3190	1.84273	4846.9154	1.84325	4858.5256
1/2	1.84225	4836.0434	1.84277	4847.6406	1.84328	4859.2517
9/16	1.84228	4836.7678	1.84280	4848.3659	1.84332	4859.9779
5/8	1.84231	4837.4923	1.84283	4849.0913	1.84335	4860.7041
11/16	1.84234	4838.2168	1.84286	4849.8167	1.84338	4861.4304
3/4	1.84238	4838.9414	1.84290	4850.5421	1.84341	4862.1567
13/16	1.84241	4839.6660	1.84293	4851.2676	1.84345	4862.8831
7/8	1.84244	4840.3907	1.84296	4851.9932	1.84348	4863.6095
15/16	1.84247	4841.1155	1.84299	4852.7188	1.84351	4864.3360

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84354	4865.0625	1.84406	4876.6944	1.84458	4888.3403
1/16	1.84358	4865.7891	1.84410	4877.4219	1.84461	4889.0686
1/8	1.84361	4866.5157	1.84413	4878.1494	1.84465	4889.7970
3/16	1.84364	4867.2424	1.84416	4878.8770	1.84468	4890.5254
1/4	1.84367	4867.9692	1.84419	4879.6046	1.84471	4891.2539
5/16	1.84371	4868.6960	1.84422	4880.3323	1.84474	4891.9824
3/8	1.84374	4869.4229	1.84426	4881.0600	1.84477	4892.7110
7/16	1.84377	4870.1498	1.84429	4881.7878	1.84481	4893.4397
1/2	1.84380	4870.8767	1.84432	4882.5156	1.84484	4894.1684
9/16	1.84384	4871.6038	1.84435	4883.2435	1.84487	4894.8972
5/8	1.84387	4872.3308	1.84439	4883.9715	1.84490	4895.6260
11/16	1.84390	4873.0580	1.84442	4884.6995	1.84494	4896.3548
3/4	1.84393	4873.7852	1.84445	4885.4275	1.84497	4897.0838
13/16	1.84397	4874.5124	1.84448	4886.1556	1.84500	4897.8127
7/8	1.84400	4875.2397	1.84452	4886.8838	1.84503	4898.5418
15/16	1.84403	4875.9670	1.84455	4887.6120	1.84507	4899.2709

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84510	4900.0000	1.84561	4911.6736	1.84613	4923.3611
1/16	1.84513	4900.7292	1.84565	4912.4037	1.84616	4924.0920
1/8	1.84516	4901.4584	1.84568	4913.1338	1.84620	4924.8230
3/16	1.84519	4902.1877	1.84571	4913.8640	1.84623	4925.5541
1/4	1.84523	4902.9171	1.84574	4914.5942	1.84626	4926.2852
5/16	1.84526	4903.6465	1.84578	4915.3245	1.84629	4927.0163
3/8	1.84529	4904.3760	1.84581	4916.0548	1.84632	4927.7475
7/16	1.84532	4905.1055	1.84584	4916.7852	1.84636	4928.4788
1/2	1.84536	4905.8351	1.84587	4917.5156	1.84639	4929.2101
9/16	1.84539	4906.5647	1.84591	4918.2461	1.84642	4929.9414
5/8	1.84542	4907.2944	1.84594	4918.9767	1.84645	4930.6729
11/16	1.84545	4908.0241	1.84597	4919.7073	1.84649	4931.4043
3/4	1.84549	4908.7539	1.84600	4920.4379	1.84652	4932.1359
13/16	1.84552	4909.4838	1.84603	4921.1686	1.84655	4932.8674
7/8	1.84555	4910.2137	1.84607	4921.8994	1.84658	4933.5991
15/16	1.84558	4910.9436	1.84610	4922.6302	1.84661	4934.3308

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84665	4935.0625	1.84716	4946.7778	1.84768	4958.5069
1/16	1.84668	4935.7943	1.84719	4947.5104	1.84771	4959.2405
1/8	1.84671	4936.5262	1.84723	4948.2432	1.84774	4959.9741
3/16	1.84674	4937.2581	1.84726	4948.9759	1.84777	4960.7077
1/4	1.84678	4937.9900	1.84729	4949.7088	1.84780	4961.4414
5/16	1.84681	4938.7220	1.84732	4950.4417	1.84784	4962.1752
3/8	1.84684	4939.4541	1.84735	4951.1746	1.84787	4962.9090
7/16	1.84687	4940.1862	1.84739	4951.9076	1.84790	4963.6428
1/2	1.84690	4940.9184	1.84742	4952.6406	1.84793	4964.3767
9/16	1.84694	4941.6506	1.84745	4953.3737	1.84796	4965.1107
5/8	1.84697	4942.3829	1.84748	4954.1069	1.84800	4965.8447
11/16	1.84700	4943.1153	1.84751	4954.8401	1.84803	4966.5788
3/4	1.84703	4943.8477	1.84755	4955.5734	1.84806	4967.3129
13/16	1.84706	4944.5801	1.84758	4956.3067	1.84809	4968.0471
7/8	1.84710	4945.3126	1.84761	4957.0400	1.84812	4968.7814
15/16	1.84713	4946.0452	1.84764	4957.7735	1.84816	4969.5157

70'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84819	4970.2500	1.84870	4982.0069	1.84921	4993.7778
1/16	1.84822	4970.9844	1.84873	4982.7422	1.84925	4994.5139
1/8	1.84825	4971.7189	1.84877	4983.4775	1.84928	4995.2501
3/16	1.84829	4972.4534	1.84880	4984.2129	1.84931	4995.9864
1/4	1.84832	4973.1879	1.84883	4984.9484	1.84934	4996.7227
5/16	1.84835	4973.9226	1.84886	4985.6838	1.84937	4997.4590
3/8	1.84838	4974.6572	1.84889	4986.4194	1.84941	4998.1954
7/16	1.84841	4975.3920	1.84893	4987.1550	1.84944	4998.9319
1/2	1.84845	4976.1267	1.84896	4987.8906	1.84947	4999.6684
9/16	1.84848	4976.8616	1.84899	4988.6263	1.84950	5000.4050
5/8	1.84851	4977.5965	1.84902	4989.3621	1.84953	5001.1416
11/16	1.84854	4978.3314	1.84905	4990.0979	1.84957	5001.8783
3/4	1.84857	4979.0664	1.84909	4990.8338	1.84960	5002.6150
13/16	1.84861	4979.8015	1.84912	4991.5697	1.84963	5003.3518
7/8	1.84864	4980.5366	1.84915	4992.3057	1.84966	5004.0887
15/16	1.84867	4981.2717	1.84918	4993.0417	1.84969	5004.8255

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.84973	5005.5625	1.85024	5017.3611	1.85075	5029.1736
1/16	1.84976	5006.2995	1.85027	5018.0990	1.85078	5029.9124
1/8	1.84979	5007.0366	1.85030	5018.8369	1.85081	5030.6512
3/16	1.84982	5007.7737	1.85033	5019.5749	1.85084	5031.3900
1/4	1.84985	5008.5109	1.85037	5020.3129	1.85088	5032.1289
5/16	1.84989	5009.2481	1.85040	5021.0510	1.85091	5032.8679
3/8	1.84992	5009.9854	1.85043	5021.7892	1.85094	5033.6069
7/16	1.84995	5010.7227	1.85046	5022.5274	1.85097	5034.3459
1/2	1.84998	5011.4601	1.85049	5023.2656	1.85100	5035.0851
9/16	1.85001	5012.1975	1.85052	5024.0039	1.85104	5035.8242
5/8	1.85005	5012.9350	1.85056	5024.7423	1.85107	5036.5635
11/16	1.85008	5013.6726	1.85059	5025.4807	1.85110	5037.3028
3/4	1.85011	5014.4102	1.85062	5026.2192	1.85113	5038.0421
13/16	1.85014	5015.1478	1.85065	5026.9577	1.85116	5038.7815
7/8	1.85017	5015.8855	1.85068	5027.6963	1.85119	5039.5209
15/16	1.85021	5016.6233	1.85072	5028.4349	1.85123	5040.2604

71'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.85126	5041.0000	1.85177	5052.8403	1.85228	5064.6944
1/16	1.85129	5041.7396	1.85180	5053.5808	1.85231	5065.4358
1/8	1.85132	5042.4793	1.85183	5054.3213	1.85234	5066.1772
3/16	1.85135	5043.2190	1.85186	5055.0619	1.85237	5066.9186
1/4	1.85139	5043.9588	1.85190	5055.8025	1.85240	5067.6602
5/16	1.85142	5044.6986	1.85193	5056.5432	1.85244	5068.4017
3/8	1.85145	5045.4385	1.85196	5057.2840	1.85247	5069.1433
7/16	1.85148	5046.1784	1.85199	5058.0248	1.85250	5069.8850
1/2	1.85151	5046.9184	1.85202	5058.7656	1.85253	5070.6267
9/16	1.85154	5047.6584	1.85205	5059.5065	1.85256	5071.3685
5/8	1.85158	5048.3985	1.85209	5060.2475	1.85259	5072.1104
11/16	1.85161	5049.1387	1.85212	5060.9885	1.85263	5072.8522
3/4	1.85164	5049.8789	1.85215	5061.7296	1.85266	5073.5942
13/16	1.85167	5050.6192	1.85218	5062.4707	1.85269	5074.3362
7/8	1.85170	5051.3595	1.85221	5063.2119	1.85272	5075.0782
15/16	1.85174	5052.0999	1.85224	5063.9532	1.85275	5075.8203

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.85278	5076.5625	1.85329	5088.4444	1.85380	5100.3403
1/16	1.85282	5077.3047	1.85332	5089.1875	1.85383	5101.0842
1/8	1.85285	5078.0470	1.85336	5089.9307	1.85386	5101.8282
3/16	1.85288	5078.7893	1.85339	5090.6739	1.85389	5102.5723
1/4	1.85291	5079.5317	1.85342	5091.4171	1.85393	5103.3164
5/16	1.85294	5080.2741	1.85345	5092.1604	1.85396	5104.0606
3/8	1.85298	5081.0166	1.85348	5092.9038	1.85399	5104.8048
7/16	1.85301	5081.7591	1.85351	5093.6472	1.85402	5105.5491
1/2	1.85304	5082.5017	1.85355	5094.3906	1.85405	5106.2934
9/16	1.85307	5083.2444	1.85358	5095.1341	1.85408	5107.0378
5/8	1.85310	5083.9871	1.85361	5095.8777	1.85412	5107.7822
11/16	1.85313	5084.7298	1.85364	5096.6213	1.85415	5108.5267
3/4	1.85317	5085.4727	1.85367	5097.3650	1.85418	5109.2713
13/16	1.85320	5086.2155	1.85370	5098.1088	1.85421	5110.0159
7/8	1.85323	5086.9584	1.85374	5098.8525	1.85424	5110.7605
15/16	1.85326	5087.7014	1.85377	5099.5964	1.85427	5111.5052

71'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.85431	5112.2500	1.85481	5124.1736	1.85532	5136.1111
1/16	1.85434	5112.9948	1.85484	5124.9193	1.85535	5136.8577
1/8	1.85437	5113.7397	1.85488	5125.6650	1.85538	5137.6043
3/16	1.85440	5114.4846	1.85491	5126.4108	1.85541	5138.3509
1/4	1.85443	5115.2296	1.85494	5127.1567	1.85544	5139.0977
5/16	1.85446	5115.9746	1.85497	5127.9026	1.85547	5139.8444
3/8	1.85450	5116.7197	1.85500	5128.6485	1.85551	5140.5913
7/16	1.85453	5117.4649	1.85503	5129.3946	1.85554	5141.3381
1/2	1.85456	5118.2101	1.85506	5130.1406	1.85557	5142.0851
9/16	1.85459	5118.9553	1.85510	5130.8867	1.85560	5142.8321
5/8	1.85462	5119.7006	1.85513	5131.6329	1.85563	5143.5791
11/16	1.85465	5120.4460	1.85516	5132.3792	1.85566	5144.3262
3/4	1.85469	5121.1914	1.85519	5133.1254	1.85570	5145.0734
13/16	1.85472	5121.9369	1.85522	5133.8718	1.85573	5145.8206
7/8	1.85475	5122.6824	1.85525	5134.6182	1.85576	5146.5678
15/16	1.85478	5123.4280	1.85529	5135.3646	1.85579	5147.3151

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.85582	5148.0625	1.85633	5160.0278	1.85683	5172.0069
1/16	1.85585	5148.8099	1.85636	5160.7761	1.85686	5172.7561
1/8	1.85588	5149.5574	1.85639	5161.5244	1.85689	5173.5053
3/16	1.85592	5150.3049	1.85642	5162.2728	1.85692	5174.2546
1/4	1.85595	5151.0525	1.85645	5163.0213	1.85696	5175.0039
5/16	1.85598	5151.8002	1.85648	5163.7698	1.85699	5175.7533
3/8	1.85601	5152.5479	1.85651	5164.5183	1.85702	5176.5027
7/16	1.85604	5153.2956	1.85655	5165.2670	1.85705	5177.2522
1/2	1.85607	5154.0434	1.85658	5166.0156	1.85708	5178.0017
9/16	1.85611	5154.7913	1.85661	5166.7644	1.85711	5178.7513
5/8	1.85614	5155.5392	1.85664	5167.5131	1.85714	5179.5010
11/16	1.85617	5156.2871	1.85667	5168.2620	1.85718	5180.2507
3/4	1.85620	5157.0352	1.85670	5169.0109	1.85721	5181.0004
13/16	1.85623	5157.7832	1.85674	5169.7598	1.85724	5181.7502
7/8	1.85626	5158.5314	1.85677	5170.5088	1.85727	5182.5001
15/16	1.85629	5159.2795	1.85680	5171.2578	1.85730	5183.2500

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.85733	5184.0000	1.85783	5196.0069	1.85834	5208.0278
1/16	1.85736	5184.7500	1.85787	5196.7578	1.85837	5208.7795
1/8	1.85740	5185.5001	1.85790	5197.5088	1.85840	5209.5314
3/16	1.85743	5186.2502	1.85793	5198.2598	1.85843	5210.2832
1/4	1.85746	5187.0004	1.85796	5199.0109	1.85846	5211.0352
5/16	1.85749	5187.7507	1.85799	5199.7620	1.85849	5211.7871
3/8	1.85752	5188.5010	1.85802	5200.5131	1.85852	5212.5392
7/16	1.85755	5189.2513	1.85805	5201.2644	1.85856	5213.2913
1/2	1.85758	5190.0017	1.85809	5202.0156	1.85859	5214.0434
9/16	1.85762	5190.7522	1.85812	5202.7670	1.85862	5214.7956
5/8	1.85765	5191.5027	1.85815	5203.5183	1.85865	5215.5479
11/16	1.85768	5192.2533	1.85818	5204.2698	1.85868	5216.3002
3/4	1.85771	5193.0039	1.85821	5205.0213	1.85871	5217.0525
13/16	1.85774	5193.7546	1.85824	5205.7728	1.85874	5217.8049
7/8	1.85777	5194.5053	1.85827	5206.5244	1.85878	5218.5574
15/16	1.85780	5195.2561	1.85831	5207.2761	1.85881	5219.3099

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.85884	5220.0625	1.85934	5232.1111	1.85984	5244.1736
1/16	1.85887	5220.8151	1.85937	5232.8646	1.85987	5244.9280
1/8	1.85890	5221.5678	1.85940	5233.6182	1.85990	5245.6824
3/16	1.85893	5222.3206	1.85943	5234.3718	1.85993	5246.4369
1/4	1.85896	5223.0734	1.85946	5235.1254	1.85996	5247.1914
5/16	1.85899	5223.8262	1.85949	5235.8792	1.85999	5247.9460
3/8	1.85903	5224.5791	1.85953	5236.6329	1.86003	5248.7006
7/16	1.85906	5225.3321	1.85956	5237.3867	1.86006	5249.4553
1/2	1.85909	5226.0851	1.85959	5238.1406	1.86009	5250.2101
9/16	1.85912	5226.8381	1.85962	5238.8946	1.86012	5250.9649
5/8	1.85915	5227.5913	1.85965	5239.6485	1.86015	5251.7197
11/16	1.85918	5228.3444	1.85968	5240.4026	1.86018	5252.4746
3/4	1.85921	5229.0977	1.85971	5241.1567	1.86021	5253.2296
13/16	1.85924	5229.8509	1.85974	5241.9108	1.86024	5253.9846
7/8	1.85928	5230.6043	1.85978	5242.6650	1.86028	5254.7397
15/16	1.85931	5231.3577	1.85981	5243.4193	1.86031	5255.4948

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86034	5256.2500	1.86084	5268.3403	1.86134	5280.4444
1/16	1.86037	5257.0052	1.86087	5269.0964	1.86137	5281.2014
1/8	1.86040	5257.7605	1.86090	5269.8525	1.86140	5281.9584
3/16	1.86043	5258.5159	1.86093	5270.6088	1.86143	5282.7155
1/4	1.86046	5259.2713	1.86096	5271.3650	1.86146	5283.4727
5/16	1.86049	5260.0267	1.86099	5272.1213	1.86149	5284.2298
3/8	1.86053	5260.7822	1.86102	5272.8777	1.86152	5284.9871
7/16	1.86056	5261.5378	1.86106	5273.6341	1.86155	5285.7444
1/2	1.86059	5262.2934	1.86109	5274.3906	1.86158	5286.5017
9/16	1.86062	5263.0491	1.86112	5275.1472	1.86162	5287.2591
5/8	1.86065	5263.8048	1.86115	5275.9038	1.86165	5288.0166
11/16	1.86068	5264.5606	1.86118	5276.6604	1.86168	5288.7741
3/4	1.86071	5265.3164	1.86121	5277.4171	1.86171	5289.5317
13/16	1.86074	5266.0723	1.86124	5278.1739	1.86174	5290.2893
7/8	1.86077	5266.8282	1.86127	5278.9307	1.86177	5291.0470
15/16	1.86081	5267.5842	1.86130	5279.6875	1.86180	5291.8047

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86183	5292.5625	1.86233	5304.6944	1.86283	5316.8403
1/16	1.86186	5293.3203	1.86236	5305.4532	1.86286	5317.5999
1/8	1.86190	5294.0782	1.86239	5306.2119	1.86289	5318.3595
3/16	1.86193	5294.8362	1.86242	5306.9707	1.86292	5319.1192
1/4	1.86196	5295.5942	1.86245	5307.7296	1.86295	5319.8789
5/16	1.86199	5296.3522	1.86249	5308.4885	1.86298	5320.6387
3/8	1.86205	5297.1104	1.86252	5309.2475	1.86301	5321.3985
7/16	1.86205	5297.8685	1.86255	5310.0065	1.86304	5322.1584
1/2	1.86208	5298.6267	1.86258	5310.7656	1.86307	5322.9184
9/16	1.86211	5299.3850	1.86261	5311.5248	1.86311	5323.6784
5/8	1.86214	5300.1433	1.86264	5312.2840	1.86314	5324.4385
11/16	1.86217	5300.9017	1.86267	5313.0432	1.86317	5325.1986
3/4	1.86221	5301.6602	1.86270	5313.8025	1.86320	5325.9588
13/16	1.86224	5302.4186	1.86273	5314.5619	1.86323	5326.7190
7/8	1.86227	5303.1772	1.86276	5315.3213	1.86326	5327.4793
15/16	1.86230	5303.9358	1.86280	5316.0808	1.86329	5328.2396

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86332	5329.0000	1.86382	5341.1736	1.86431	5353.3611
1/16	1.86335	5329.7604	1.86385	5341.9349	1.86434	5354.1233
1/8	1.86338	5330.5209	1.86388	5342.6963	1.86438	5354.8855
3/16	1.86342	5331.2815	1.86391	5343.4577	1.86441	5355.6478
1/4	1.86345	5332.0421	1.86394	5344.2192	1.86444	5356.4102
5/16	1.86348	5332.8028	1.86397	5344.9807	1.86447	5357.1726
3/8	1.86351	5333.5635	1.86400	5345.7423	1.86450	5357.9350
7/16	1.86354	5334.3242	1.86403	5346.5039	1.86453	5358.6975
1/2	1.86357	5335.0851	1.86407	5347.2656	1.86456	5359.4601
9/16	1.86360	5335.8459	1.86410	5348.0274	1.86459	5360.2227
5/8	1.86363	5336.6069	1.86413	5348.7892	1.86462	5360.9854
11/16	1.86366	5337.3679	1.86416	5349.5510	1.86465	5361.7481
3/4	1.86369	5338.1289	1.86419	5350.3129	1.86468	5362.5109
13/16	1.86373	5338.8900	1.86422	5351.0749	1.86471	5363.2737
7/8	1.86376	5339.6512	1.86425	5351.8369	1.86475	5364.0366
15/16	1.86379	5340.4124	1.86428	5352.5990	1.86478	5364.7995

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86481	5365.5625	1.86530	5377.7778	1.86579	5390.0069
1/16	1.86484	5366.3255	1.86533	5378.5417	1.86583	5390.7717
1/8	1.86487	5367.0887	1.86536	5379.3057	1.86586	5391.5366
3/16	1.86490	5367.8518	1.86539	5380.0697	1.86589	5392.3015
1/4	1.86493	5368.6150	1.86542	5380.8338	1.86592	5393.0664
5/16	1.86496	5369.3783	1.86546	5381.5979	1.86595	5393.8314
3/8	1.86499	5370.1416	1.86549	5382.3621	1.86598	5394.5965
7/16	1.86502	5370.9050	1.86552	5383.1263	1.86601	5395.3616
1/2	1.86505	5371.6684	1.86555	5383.8906	1.86604	5396.1267
9/16	1.86509	5372.4319	1.86558	5384.6550	1.86607	5396.8920
5/8	1.86512	5373.1954	1.86561	5385.4194	1.86610	5397.6572
11/16	1.86515	5373.9590	1.86564	5386.1838	1.86613	5398.4226
3/4	1.86518	5374.7227	1.86567	5386.9484	1.86616	5399.1879
13/16	1.86521	5375.4864	1.86570	5387.7129	1.86620	5399.9534
7/8	1.86524	5376.2501	1.86573	5388.4775	1.86623	5400.7189
15/16	1.86527	5377.0139	1.86576	5389.2422	1.86626	5401.4844

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86629	5402.2500	1.86678	5414.5069	1.86727	5426.7778
1/16	1.86632	5403.0157	1.86681	5415.2735	1.86730	5427.5452
1/8	1.86635	5403.7814	1.86684	5416.0400	1.86733	5428.3126
3/16	1.86638	5404.5471	1.86687	5416.8067	1.86736	5429.0801
1/4	1.86641	5405.3129	1.86690	5417.5734	1.86739	5429.8477
5/16	1.86644	5406.0788	1.86693	5418.3401	1.86742	5430.6153
3/8	1.86647	5406.8447	1.86696	5419.1069	1.86746	5431.3829
7/16	1.86650	5407.6107	1.86699	5419.8737	1.86749	5432.1506
1/2	1.86653	5408.3767	1.86703	5420.6406	1.86752	5432.9184
9/16	1.86656	5409.1428	1.86706	5421.4076	1.86755	5433.6862
5/8	1.86659	5409.9090	1.86709	5422.1746	1.86758	5434.4541
11/16	1.86663	5410.6752	1.86712	5422.9417	1.86761	5435.2220
3/4	1.86666	5411.4414	1.86715	5423.7088	1.86764	5435.9900
13/16	1.86669	5412.2077	1.86718	5424.4759	1.86767	5436.7581
7/8	1.86672	5412.9741	1.86721	5425.2432	1.86770	5437.5262
15/16	1.86675	5413.7405	1.86724	5426.0104	1.86773	5438.2943

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86776	5439.0625	1.86825	5451.3611	1.86874	5463.6736
1/16	1.86779	5439.8308	1.86828	5452.1302	1.86877	5464.4436
1/8	1.86782	5440.5991	1.86831	5452.8994	1.86880	5465.2137
3/16	1.86785	5441.3674	1.86834	5453.6686	1.86883	5465.9838
1/4	1.86788	5442.1359	1.86838	5454.4379	1.86886	5466.7539
5/16	1.86792	5442.9043	1.86841	5455.2073	1.86890	5467.5241
3/8	1.86795	5443.6729	1.86844	5455.9767	1.86893	5468.2944
7/16	1.86798	5444.4414	1.86847	5456.7461	1.86896	5469.0647
1/2	1.86801	5445.2101	1.86850	5457.5156	1.86899	5469.8351
9/16	1.86804	5445.9788	1.86853	5458.2852	1.86902	5470.6055
5/8	1.86807	5446.7475	1.86856	5459.0548	1.86905	5471.3760
11/16	1.86810	5447.5163	1.86859	5459.8245	1.86908	5472.1465
3/4	1.86813	5448.2852	1.86862	5460.5942	1.86911	5472.9171
13/16	1.86816	5449.0541	1.86865	5461.3640	1.86914	5473.6877
7/8	1.86819	5449.8230	1.86868	5462.1338	1.86917	5474.4584
15/16	1.86822	5450.5920	1.86871	5462.9037	1.86920	5475.2292

74'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.86923	5476.0000	1.86972	5488.3403	1.87021	5500.6944
1/16	1.86926	5476.7709	1.86975	5489.1120	1.87024	5501.4670
1/8	1.86929	5477.5418	1.86978	5489.8838	1.87027	5502.2397
3/16	1.86932	5478.3127	1.86981	5490.6556	1.87030	5503.0124
1/4	1.86935	5479.0838	1.86984	5491.4275	1.87033	5503.7852
5/16	1.86938	5479.8548	1.86987	5492.1995	1.87036	5504.5580
3/8	1.86942	5480.6260	1.86990	5492.9715	1.87039	5505.3308
7/16	1.86945	5481.3972	1.86993	5493.7435	1.87042	5506.1038
1/2	1.86948	5482.1684	1.86996	5494.5156	1.87045	5506.8767
9/16	1.86951	5482.9397	1.87000	5495.2878	1.87048	5507.6498
5/8	1.86954	5483.7110	1.87003	5496.0600	1.87051	5508.4229
11/16	1.86957	5484.4824	1.87006	5496.8323	1.87054	5509.1960
3/4	1.86960	5485.2539	1.87009	5497.6046	1.87057	5509.9692
13/16	1.86963	5486.0254	1.87012	5498.3770	1.87061	5510.7424
7/8	1.86966	5486.7970	1.87015	5499.1494	1.87064	5511.5157
15/16	1.86969	5487.5686	1.87018	5499.9219	1.87067	5512.2891
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87070	5513.0625	1.87118	5525.4444	1.87167	5537.8403
1/16	1.87073	5513.8360	1.87121	5526.2188	1.87170	5538.6155
1/8	1.87076	5514.6095	1.87124	5526.9932	1.87173	5539.3907
3/16	1.87079	5515.3831	1.87127	5527.7676	1.87176	5540.1660
1/4	1.87082	5516.1567	1.87131	5528.5421	1.87179	5540.9414
5/16	1.87085	5516.9304	1.87134	5529.3167	1.87182	5541.7168
3/8	1.87088	5517.7041	1.87137	5530.0913	1.87185	5542.4923
7/16	1.87091	5518.4779	1.87140	5530.8659	1.87188	5543.2678
1/2	1.87094	5519.2517	1.87143	5531.6406	1.87191	5544.0434
9/16	1.87097	5520.0256	1.87146	5532.4154	1.87194	5544.8190
5/8	1.87100	5520.7996	1.87149	5533.1902	1.87197	5545.5947
11/16	1.87103	5521.5736	1.87152	5533.9651	1.87200	5546.3705
3/4	1.87106	5522.3477	1.87155	5534.7400	1.87203	5547.1463
13/16	1.87109	5523.1218	1.87158	5535.5150	1.87207	5547.9221
7/8	1.87112	5523.8959	1.87161	5536.2900	1.87210	5548.6980
15/16	1.87115	5524.6702	1.87164	5537.0651	1.87213	5549.4740

74'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87216	5550.2500	1.87264	5562.6736	1.87313	5575.1111
1/16	1.87219	5551.0261	1.87267	5563.4505	1.87316	5575.8889
1/8	1.87222	5551.8022	1.87270	5564.2275	1.87319	5576.6668
3/16	1.87225	5552.5784	1.87273	5565.0046	1.87322	5577.4447
1/4	1.87228	5553.3546	1.87276	5565.7817	1.87325	5578.2227
5/16	1.87231	5554.1309	1.87279	5566.5588	1.87328	5579.0007
3/8	1.87234	5554.9072	1.87282	5567.3360	1.87331	5579.7788
7/16	1.87237	5555.6836	1.87285	5568.1133	1.87334	5580.5569
1/2	1.87240	5556.4601	1.87288	5568.8906	1.87337	5581.3351
9/16	1.87243	5557.2366	1.87291	5569.6680	1.87340	5582.1133
5/8	1.87246	5558.0131	1.87295	5570.4454	1.87343	5582.8916
11/16	1.87249	5558.7897	1.87298	5571.2229	1.87346	5583.6699
3/4	1.87252	5559.5664	1.87301	5572.0004	1.87349	5584.4484
13/16	1.87255	5560.3431	1.87304	5572.7780	1.87352	5585.2268
7/8	1.87258	5561.1199	1.87307	5573.5557	1.87355	5586.0053
15/16	1.87261	5561.8967	1.87310	5574.3334	1.87358	5586.7839

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87361	5587.5625	1.87410	5600.0278	1.87458	5612.5069
1/16	1.87364	5588.3412	1.87413	5600.8073	1.87461	5613.2874
1/8	1.87367	5589.1199	1.87416	5601.5869	1.87464	5614.0678
3/16	1.87370	5589.8987	1.87419	5602.3666	1.87467	5614.8483
1/4	1.87373	5590.6775	1.87422	5603.1463	1.87470	5615.6289
5/16	1.87376	5591.4564	1.87425	5603.9260	1.87473	5616.4095
3/8	1.87379	5592.2354	1.87428	5604.7058	1.87476	5617.1902
7/16	1.87382	5593.0144	1.87431	5605.4857	1.87479	5617.9709
1/2	1.87385	5593.7934	1.87434	5606.2656	1.87482	5618.7517
9/16	1.87388	5594.5725	1.87437	5607.0456	1.87485	5619.5326
5/8	1.87391	5595.3517	1.87440	5607.8256	1.87488	5620.3135
11/16	1.87394	5596.1309	1.87443	5608.6057	1.87491	5621.0944
3/4	1.87397	5596.9102	1.87446	5609.3859	1.87494	5621.8754
13/16	1.87400	5597.6895	1.87449	5610.1660	1.87497	5622.6565
7/8	1.87403	5598.4689	1.87452	5610.9463	1.87500	5623.4376
15/16	1.87406	5599.2483	1.87455	5611.7266	1.87503	5624.2188

75'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87506	5625.0000	1.87554	5637.5069	1.87603	5650.0278
1/16	1.87509	5625.7813	1.87557	5638.2891	1.87606	5650.8108
1/8	1.87512	5626.5626	1.87560	5639.0713	1.87609	5651.5939
3/16	1.87515	5627.3440	1.87563	5639.8535	1.87612	5652.3770
1/4	1.87518	5628.1254	1.87566	5640.6359	1.87615	5653.1602
5/16	1.87521	5628.9069	1.87569	5641.4182	1.87618	5653.9434
3/8	1.87524	5629.6885	1.87572	5642.2006	1.87621	5654.7267
7/16	1.87527	5630.4701	1.87575	5642.9831	1.87624	5655.5100
1/2	1.87530	5631.2517	1.87578	5643.7656	1.87627	5656.2934
9/16	1.87533	5632.0334	1.87581	5644.5482	1.87630	5657.0769
5/8	1.87536	5632.8152	1.87584	5645.3308	1.87633	5657.8604
11/16	1.87539	5633.5970	1.87587	5646.1135	1.87636	5658.6439
3/4	1.87542	5634.3789	1.87590	5646.8963	1.87639	5659.4275
13/16	1.87545	5635.1608	1.87594	5647.6791	1.87642	5660.2112
7/8	1.87548	5635.9428	1.87597	5648.4619	1.87645	5660.9949
15/16	1.87551	5636.7249	1.87600	5649.2448	1.87648	5661.7787

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87651	5662.5625	1.87699	5675.1111	1.87747	5687.6736
1/16	1.87654	5663.3464	1.87702	5675.8959	1.87750	5688.4592
1/8	1.87657	5664.1303	1.87705	5676.6807	1.87753	5689.2449
3/16	1.87660	5664.9143	1.87708	5677.4655	1.87756	5690.0306
1/4	1.87663	5665.6984	1.87711	5678.2504	1.87759	5690.8164
5/16	1.87666	5666.4824	1.87714	5679.0354	1.87762	5691.6022
3/8	1.87669	5667.2666	1.87717	5679.8204	1.87765	5692.3881
7/16	1.87672	5668.0508	1.87720	5680.6055	1.87768	5693.1741
1/2	1.87675	5668.8351	1.87723	5681.3906	1.87771	5693.9601
9/16	1.87678	5669.6194	1.87726	5682.1758	1.87774	5694.7461
5/8	1.87681	5670.4038	1.87729	5682.9610	1.87777	5695.5322
11/16	1.87684	5671.1882	1.87732	5683.7463	1.87780	5696.3184
3/4	1.87687	5671.9727	1.87735	5684.5317	1.87783	5697.1046
13/16	1.87690	5672.7572	1.87738	5685.3171	1.87786	5697.8909
7/8	1.87693	5673.5418	1.87741	5686.1025	1.87789	5698.6772
15/16	1.87696	5674.3264	1.87744	5686.8880	1.87792	5699.4636

75'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87795	5700.2500	1.87843	5712.8403	1.87890	5725.4444
1/16	1.87798	5701.0365	1.87846	5713.6276	1.87893	5726.2327
1/8	1.87801	5701.8230	1.87849	5714.4150	1.87896	5727.0209
3/16	1.87804	5702.6096	1.87852	5715.2025	1.87899	5727.8093
1/4	1.87807	5703.3963	1.87855	5715.9900	1.87902	5728.5977
5/16	1.87810	5704.1830	1.87858	5716.7776	1.87905	5729.3861
3/8	1.87813	5704.9697	1.87861	5717.5652	1.87908	5730.1746
7/16	1.87816	5705.7565	1.87864	5718.3529	1.87911	5730.9631
1/2	1.87819	5706.5434	1.87867	5719.1406	1.87914	5731.7517
9/16	1.87822	5707.3303	1.87870	5719.9284	1.87917	5732.5404
5/8	1.87825	5708.1173	1.87873	5720.7163	1.87920	5733.3291
11/16	1.87828	5708.9043	1.87876	5721.5042	1.87923	5734.1179
3/4	1.87831	5709.6914	1.87879	5722.2921	1.87926	5734.9067
13/16	1.87834	5710.4785	1.87881	5723.0801	1.87929	5735.6956
7/8	1.87837	5711.2657	1.87884	5723.8682	1.87932	5736.4845
15/16	1.87840	5712.0530	1.87887	5724.6563	1.87935	5737.2735

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.87938	5738.0625	1.87986	5750.6944	1.88034	5763.3403
1/16	1.87941	5738.8516	1.87989	5751.4844	1.88037	5764.1311
1/8	1.87944	5739.6407	1.87992	5752.2744	1.88040	5764.9220
3/16	1.87947	5740.4299	1.87995	5753.0645	1.88043	5765.7129
1/4	1.87950	5741.2192	1.87998	5753.8546	1.88046	5766.5039
5/16	1.87953	5742.0085	1.88001	5754.6448	1.88049	5767.2949
3/8	1.87956	5742.7979	1.88004	5755.4350	1.88052	5768.0860
7/16	1.87959	5743.5873	1.88007	5756.2253	1.88055	5768.8772
1/2	1.87962	5744.3767	1.88010	5757.0156	1.88058	5769.6684
9/16	1.87965	5745.1663	1.88013	5757.8060	1.88061	5770.4597
5/8	1.87968	5745.9558	1.88016	5758.5965	1.88063	5771.2510
11/16	1.87971	5746.7455	1.88019	5759.3870	1.88066	5772.0423
3/4	1.87974	5747.5352	1.88022	5760.1775	1.88069	5772.8338
13/16	1.87977	5748.3249	1.88025	5760.9681	1.88072	5773.6252
7/8	1.87980	5749.1147	1.88028	5761.7588	1.88075	5774.4168
15/16	1.87983	5749.9045	1.88031	5762.5495	1.88078	5775.2084

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88081	5776.0000	1.88129	5788.6736	1.88176	5801.3611
$\frac{1}{16}$	1.88084	5776.7917	1.88132	5789.4662	1.88179	5802.1545
$\frac{1}{8}$	1.88087	5777.5834	1.88135	5790.2588	1.88182	5802.9480
$\frac{3}{16}$	1.88090	5778.3752	1.88138	5791.0515	1.88185	5803.7416
$\frac{1}{4}$	1.88093	5779.1671	1.88141	5791.8442	1.88188	5804.5352
$\frac{5}{16}$	1.88096	5779.9590	1.88144	5792.6370	1.88191	5805.3288
$\frac{3}{8}$	1.88099	5780.7510	1.88147	5793.4298	1.88194	5806.1225
$\frac{7}{16}$	1.88102	5781.5430	1.88150	5794.2227	1.88197	5806.9163
$\frac{1}{2}$	1.88105	5782.3351	1.88153	5795.0156	1.88200	5807.7101
$\frac{9}{16}$	1.88108	5783.1272	1.88156	5795.8086	1.88203	5808.5039
$\frac{5}{8}$	1.88111	5783.9194	1.88159	5796.6017	1.88206	5809.2979
$1\frac{1}{16}$	1.88114	5784.7116	1.88162	5797.3948	1.88209	5810.0918
$\frac{3}{4}$	1.88117	5785.5039	1.88165	5798.1879	1.88212	5810.8859
$1\frac{3}{16}$	1.88120	5786.2963	1.88168	5798.9811	1.88215	5811.6799
$\frac{7}{8}$	1.88123	5787.0887	1.88171	5799.7744	1.88218	5812.4741
$1\frac{5}{16}$	1.88126	5787.8811	1.88174	5800.5677	1.88221	5813.2683
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88224	5814.0625	1.88271	5826.7778	1.88319	5839.5069
$\frac{1}{16}$	1.88227	5814.8568	1.88274	5827.5729	1.88322	5840.3030
$\frac{1}{8}$	1.88230	5815.6512	1.88277	5828.3682	1.88325	5841.0991
$\frac{3}{16}$	1.88233	5816.4456	1.88280	5829.1634	1.88328	5841.8952
$\frac{1}{4}$	1.88236	5817.2400	1.88283	5829.9588	1.88331	5842.6914
$\frac{5}{16}$	1.88239	5818.0345	1.88286	5830.7542	1.88334	5843.4877
$\frac{3}{8}$	1.88242	5818.8291	1.88289	5831.5496	1.88337	5844.2840
$\frac{7}{16}$	1.88245	5819.6237	1.88292	5832.3451	1.88340	5845.0803
$\frac{1}{2}$	1.88248	5820.4184	1.88295	5833.1406	1.88342	5845.8767
$\frac{9}{16}$	1.88251	5821.2131	1.88298	5833.9362	1.88345	5846.6732
$\frac{5}{8}$	1.88254	5822.0079	1.88301	5834.7319	1.88348	5847.4697
$1\frac{1}{16}$	1.88257	5822.8028	1.88304	5835.5276	1.88351	5848.2663
$\frac{3}{4}$	1.88260	5823.5977	1.88307	5836.3234	1.88354	5849.0629
$1\frac{3}{16}$	1.88263	5824.3926	1.88310	5837.1192	1.88357	5849.8596
$\frac{7}{8}$	1.88265	5825.1876	1.88313	5837.9150	1.88360	5850.6564
$1\frac{5}{16}$	1.88268	5825.9827	1.88316	5838.7110	1.88363	5851.4532

76'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88366	5852.2500	1.88413	5865.0069	1.88461	5877.7778
1/16	1.88369	5853.0469	1.88416	5865.8047	1.88464	5878.5764
1/8	1.88372	5853.8439	1.88419	5866.6025	1.88467	5879.3751
3/16	1.88375	5854.6409	1.88422	5867.4004	1.88470	5880.1739
1/4	1.88378	5855.4379	1.88425	5868.1984	1.88472	5880.9727
5/16	1.88381	5856.2351	1.88428	5868.9963	1.88475	5881.7715
3/8	1.88384	5857.0322	1.88431	5869.7944	1.88478	5882.5704
7/16	1.88387	5857.8295	1.88434	5870.5925	1.88481	5883.3694
1/2	1.88390	5858.6267	1.88437	5871.3906	1.88484	5884.1684
9/16	1.88393	5859.4241	1.88440	5872.1888	1.88487	5884.9675
5/8	1.88396	5860.2215	1.88443	5872.9871	1.88490	5885.7666
11/16	1.88399	5861.0189	1.88446	5873.7854	1.88493	5886.5658
3/4	1.88402	5861.8164	1.88449	5874.5838	1.88496	5887.3650
13/16	1.88405	5862.6140	1.88452	5875.3822	1.88499	5888.1643
7/8	1.88408	5863.4116	1.88455	5876.1807	1.88502	5888.9637
15/16	1.88410	5864.2092	1.88458	5876.9792	1.88505	5889.7630

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88508	5890.5625	1.88555	5903.3611	1.88602	5916.1736
1/16	1.88511	5891.3620	1.88558	5904.1615	1.88605	5916.9749
1/8	1.88514	5892.1616	1.88561	5904.9619	1.88608	5917.7762
3/16	1.88517	5892.9612	1.88564	5905.7624	1.88611	5918.5775
1/4	1.88520	5893.7609	1.88567	5906.5629	1.88614	5919.3789
5/16	1.88523	5894.5606	1.88570	5907.3635	1.88617	5920.1804
3/8	1.88526	5895.3604	1.88573	5908.1642	1.88620	5920.9819
7/16	1.88528	5896.1602	1.88576	5908.9649	1.88623	5921.7834
1/2	1.88531	5896.9601	1.88579	5909.7656	1.88626	5922.5851
9/16	1.88534	5897.7600	1.88581	5910.5664	1.88629	5923.3867
5/8	1.88537	5898.5600	1.88584	5911.3673	1.88631	5924.1885
11/16	1.88540	5899.3601	1.88587	5912.1682	1.88634	5924.9903
3/4	1.88543	5900.1602	1.88590	5912.9692	1.88637	5925.7921
13/16	1.88546	5900.9603	1.88593	5913.7702	1.88640	5926.5940
7/8	1.88549	5901.7605	1.88596	5914.5713	1.88643	5927.3959
15/16	1.88552	5902.5608	1.88599	5915.3724	1.88646	5928.1979

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88649	5929.0000	1.88696	5941.8403	1.88743	5954.6944
1/16	1.88652	5929.8021	1.88699	5942.6433	1.88746	5955.4983
1/8	1.88655	5930.6043	1.88702	5943.4463	1.88749	5956.3022
3/16	1.88658	5931.4065	1.88705	5944.2494	1.88752	5957.1061
1/4	1.88661	5932.2088	1.88708	5945.0525	1.88755	5957.9102
5/16	1.88664	5933.0111	1.88711	5945.8557	1.88758	5958.7142
3/8	1.88667	5933.8135	1.88714	5946.6590	1.88761	5959.5183
7/16	1.88670	5934.6159	1.88717	5947.4623	1.88763	5960.3225
1/2	1.88673	5935.4184	1.88720	5948.2656	1.88766	5961.1267
9/16	1.88676	5936.2209	1.88722	5949.0690	1.88769	5961.9310
5/8	1.88678	5937.0235	1.88725	5949.8725	1.88772	5962.7354
11/16	1.88681	5937.8262	1.88728	5950.6760	1.88775	5963.5397
3/4	1.88684	5938.6289	1.88731	5951.4796	1.88778	5964.3442
13/16	1.88687	5939.4317	1.88734	5952.2832	1.88781	5965.1487
7/8	1.88690	5940.2345	1.88737	5953.0869	1.88784	5965.9532
15/16	1.88693	5941.0374	1.88740	5953.8907	1.88787	5966.7578

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88790	5967.5625	1.88837	5980.4444	1.88883	5993.3403
1/16	1.88793	5968.3672	1.88840	5981.2500	1.88886	5994.1467
1/8	1.88796	5969.1720	1.88843	5982.0557	1.88889	5994.9532
3/16	1.88799	5969.9768	1.88845	5982.8614	1.88892	5995.7598
1/4	1.88802	5970.7817	1.88848	5983.6671	1.88895	5996.5664
5/16	1.88804	5971.5866	1.88851	5984.4729	1.88898	5997.3731
3/8	1.88807	5972.3916	1.88854	5985.2788	1.88901	5998.1798
7/16	1.88810	5973.1966	1.88857	5986.0847	1.88904	5998.9866
1/2	1.88813	5974.0017	1.88860	5986.8906	1.88907	5999.7934
9/16	1.88816	5974.8069	1.88863	5987.6966	1.88910	6000.6003
5/8	1.88819	5975.6121	1.88866	5988.5027	1.88913	6001.4072
11/16	1.88822	5976.4173	1.88869	5989.3088	1.88916	6002.2142
3/4	1.88825	5977.2227	1.88872	5990.1150	1.88918	6003.0213
13/16	1.88828	5978.0280	1.88875	5990.9213	1.88921	6003.8284
7/8	1.88831	5978.8334	1.88878	5991.7275	1.88924	6004.6355
15/16	1.88834	5979.6389	1.88881	5992.5339	1.88927	6005.4427

77'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.88930	6006.2500	1.88977	6019.1736	1.89023	6032.1111
1/16	1.88933	6007.0573	1.88980	6019.9818	1.89026	6032.9202
1/8	1.88936	6007.8647	1.88983	6020.7900	1.89029	6033.7293
3/16	1.88939	6008.6721	1.88986	6021.5983	1.89032	6034.5384
1/4	1.88942	6009.4796	1.88989	6022.4067	1.89035	6035.3477
5/16	1.88945	6010.2871	1.88991	6023.2151	1.89038	6036.1569
3/8	1.88948	6011.0947	1.88994	6024.0235	1.89041	6036.9663
7/16	1.88951	6011.9024	1.88997	6024.8321	1.89044	6037.7756
1/2	1.88954	6012.7101	1.89000	6025.6406	1.89047	6038.5851
9/16	1.88956	6013.5178	1.89003	6026.4492	1.89050	6039.3946
5/8	1.88959	6014.3256	1.89006	6027.2579	1.89053	6040.2041
11/16	1.88962	6015.1335	1.89009	6028.0667	1.89055	6041.0137
3/4	1.88965	6015.9414	1.89012	6028.8754	1.89058	6041.8234
13/16	1.88968	6016.7494	1.89015	6029.6843	1.89061	6042.6331
7/8	1.88971	6017.5574	1.89018	6030.4932	1.89064	6043.4428
15/16	1.88974	6018.3655	1.89021	6031.3021	1.89067	6044.2526

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89070	6045.0625	1.89117	6058.0278	1.89163	6071.0069
1/16	1.89073	6045.8724	1.89119	6058.8386	1.89166	6071.8186
1/8	1.89076	6046.6824	1.89122	6059.6494	1.89169	6072.6303
3/16	1.89079	6047.4924	1.89125	6060.4603	1.89172	6073.4421
1/4	1.89082	6048.3025	1.89128	6061.2713	1.89175	6074.2539
5/16	1.89085	6049.1127	1.89131	6062.0823	1.89178	6075.0658
3/8	1.89087	6049.9229	1.89134	6062.8933	1.89180	6075.8777
7/16	1.89090	6050.7331	1.89137	6063.7045	1.89183	6076.6897
1/2	1.89093	6051.5434	1.89140	6064.5156	1.89186	6077.5017
9/16	1.89096	6052.3538	1.89143	6065.3269	1.89189	6078.3138
5/8	1.89099	6053.1642	1.89146	6066.1381	1.89192	6079.1260
11/16	1.89102	6053.9746	1.89149	6066.9495	1.89195	6079.9382
3/4	1.89105	6054.7852	1.89151	6067.7609	1.89198	6080.7504
13/16	1.89108	6055.5957	1.89154	6068.5723	1.89201	6081.5627
7/8	1.89111	6056.4064	1.89157	6069.3838	1.89204	6082.3751
15/16	1.89114	6057.2170	1.89160	6070.1953	1.89207	6083.1875

78'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89209	6084.0000	1.89256	6097.0069	1.89302	6110.0278
1/16	1.89212	6084.8125	1.89259	6097.8203	1.89305	6110.8420
1/8	1.89215	6085.6251	1.89262	6098.6338	1.89308	6111.6564
3/16	1.89218	6086.4377	1.89265	6099.4473	1.89311	6112.4707
1/4	1.89221	6087.2504	1.89267	6100.2609	1.89314	6113.2852
5/16	1.89224	6088.0632	1.89270	6101.0745	1.89317	6114.0996
3/8	1.89227	6088.8760	1.89273	6101.8881	1.89320	6114.9142
7/16	1.89230	6089.6888	1.89276	6102.7019	1.89322	6115.7288
1/2	1.89233	6090.5017	1.89279	6103.5156	1.89325	6116.5434
9/16	1.89236	6091.3147	1.89282	6104.3295	1.89328	6117.3581
5/8	1.89238	6092.1277	1.89285	6105.1433	1.89331	6118.1729
11/16	1.89241	6092.9408	1.89288	6105.9573	1.89334	6118.9877
3/4	1.89244	6093.7539	1.89291	6106.7713	1.89337	6119.8025
13/16	1.89247	6094.5671	1.89293	6107.5853	1.89340	6120.6174
7/8	1.89250	6095.3803	1.89296	6108.3994	1.89343	6121.4324
15/16	1.89253	6096.1936	1.89299	6109.2136	1.89346	6122.2474

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89348	6123.0625	1.89395	6136.1111	1.89441	6149.1736
1/16	1.89351	6123.8776	1.89398	6136.9271	1.89444	6149.9905
1/8	1.89354	6124.6928	1.89400	6137.7432	1.89447	6150.8074
3/16	1.89357	6125.5081	1.89403	6138.5593	1.89449	6151.6244
1/4	1.89360	6126.3234	1.89406	6139.3754	1.89452	6152.4414
5/16	1.89363	6127.1387	1.89409	6140.1917	1.89455	6153.2585
3/8	1.89366	6127.9541	1.89412	6141.0079	1.89458	6154.0756
7/16	1.89369	6128.7696	1.89415	6141.8242	1.89461	6154.8928
1/2	1.89372	6129.5851	1.89418	6142.6406	1.89464	6155.7101
9/16	1.89374	6130.4006	1.89421	6143.4571	1.89467	6156.5274
5/8	1.89377	6131.2163	1.89424	6144.2735	1.89470	6157.3447
11/16	1.89380	6132.0319	1.89426	6145.0901	1.89473	6158.1621
3/4	1.89383	6132.8477	1.89429	6145.9067	1.89475	6158.9796
13/16	1.89386	6133.6634	1.89432	6146.7233	1.89478	6159.7971
7/8	1.89389	6134.4793	1.89435	6147.5400	1.89481	6160.6147
15/16	1.89392	6135.2952	1.89438	6148.3568	1.89484	6161.4323

78'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89487	6162.2500	1.89533	6175.3403	1.89579	6188.4444
1/16	1.89490	6163.0677	1.89536	6176.1589	1.89582	6189.2639
1/8	1.89493	6163.8855	1.89539	6176.9775	1.89585	6190.0834
3/16	1.89496	6164.7034	1.89542	6177.7963	1.89588	6190.9030
1/4	1.89498	6165.5213	1.89545	6178.6150	1.89591	6191.7227
5/16	1.89501	6166.3392	1.89547	6179.4338	1.89593	6192.5423
3/8	1.89504	6167.1572	1.89550	6180.2527	1.89596	6193.3621
7/16	1.89507	6167.9753	1.89553	6181.0716	1.89599	6194.1819
1/2	1.89510	6168.7934	1.89556	6181.8906	1.89602	6195.0017
9/16	1.89513	6169.6116	1.89559	6182.7097	1.89605	6195.8216
5/8	1.89516	6170.4298	1.89562	6183.5288	1.89608	6196.6416
11/16	1.89519	6171.2481	1.89565	6184.3479	1.89611	6197.4616
3/4	1.89522	6172.0664	1.89568	6185.1671	1.89614	6198.2817
13/16	1.89524	6172.8848	1.89570	6185.9864	1.89616	6199.1018
7/8	1.89527	6173.7032	1.89573	6186.8057	1.89619	6199.9220
15/16	1.89530	6174.5217	1.89576	6187.6250	1.89622	6200.7422

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89625	6201.5625	1.89671	6214.6944	1.89717	6227.8403
1/16	1.89628	6202.3828	1.89674	6215.5157	1.89720	6228.6624
1/8	1.89631	6203.2032	1.89677	6216.3369	1.89723	6229.4845
3/16	1.89634	6204.0237	1.89680	6217.1582	1.89725	6230.3067
1/4	1.89637	6204.8442	1.89682	6217.9796	1.89728	6231.1289
5/16	1.89639	6205.6647	1.89685	6218.8010	1.89731	6231.9512
3/8	1.89642	6206.4854	1.89688	6219.6225	1.89734	6232.7735
7/16	1.89645	6207.3060	1.89691	6220.4440	1.89737	6233.5959
1/2	1.89648	6208.1267	1.89694	6221.2656	1.89740	6234.4184
9/16	1.89651	6208.9475	1.89697	6222.0873	1.89743	6235.2409
5/8	1.89654	6209.7683	1.89700	6222.9090	1.89746	6236.0635
11/16	1.89657	6210.5892	1.89703	6223.7307	1.89748	6236.8861
3/4	1.89660	6211.4102	1.89705	6224.5525	1.89751	6237.7088
13/16	1.89662	6212.2311	1.89708	6225.3744	1.89754	6238.5315
7/8	1.89665	6213.0522	1.89711	6226.1963	1.89757	6239.3543
15/16	1.89668	6213.8733	1.89714	6227.0183	1.89760	6240.1771

Fraction of an inch	0'		1'		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89763	6241.0000	1.89808	6254.1736	1.89854	6267.3611
1/16	1.89766	6241.8229	1.89811	6254.9974	1.89857	6268.1858
1/8	1.89768	6242.6459	1.89814	6255.8213	1.89860	6269.0105
3/16	1.89771	6243.4690	1.89817	6256.6452	1.89863	6269.8353
1/4	1.89774	6244.2921	1.89820	6257.4692	1.89866	6270.6602
5/16	1.89777	6245.1153	1.89823	6258.2932	1.89869	6271.4851
3/8	1.89780	6245.9385	1.89826	6259.1173	1.89871	6272.3100
7/16	1.89783	6246.7617	1.89829	6259.9414	1.89874	6273.1350
1/2	1.89786	6247.5851	1.89831	6260.7656	1.89877	6273.9601
9/16	1.89788	6248.4084	1.89834	6261.5899	1.89880	6274.7852
5/8	1.89791	6249.2319	1.89837	6262.4142	1.89883	6275.6104
11/16	1.89794	6250.0554	1.89840	6263.2385	1.89886	6276.4356
3/4	1.89797	6250.8789	1.89843	6264.0629	1.89889	6277.2609
13/16	1.89800	6251.7025	1.89846	6264.8874	1.89891	6278.0862
7/8	1.89803	6252.5262	1.89849	6265.7119	1.89894	6278.9116
15/16	1.89806	6253.3499	1.89851	6266.5365	1.89897	6279.7370

Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.89900	6280.5625	1.89946	6293.7778	1.89991	6307.0069
1/16	1.89903	6281.3880	1.89948	6294.6042	1.89994	6307.8342
1/8	1.89906	6282.2137	1.89951	6295.4307	1.89997	6308.6616
3/16	1.89908	6283.0393	1.89954	6296.2572	1.90000	6309.4890
1/4	1.89911	6283.8650	1.89957	6297.0838	1.90003	6310.3164
5/16	1.89914	6284.6908	1.89960	6297.9104	1.90005	6311.1439
3/8	1.89917	6285.5166	1.89963	6298.7371	1.90008	6311.9715
7/16	1.89920	6286.3425	1.89966	6299.5638	1.90011	6312.7991
1/2	1.89923	6287.1684	1.89968	6300.3906	1.90014	6313.6267
9/16	1.89926	6287.9944	1.89971	6301.2175	1.90017	6314.4545
5/8	1.89928	6288.8204	1.89974	6302.0444	1.90020	6315.2822
11/16	1.89931	6289.6465	1.89977	6302.8713	1.90022	6316.1101
3/4	1.89934	6290.4727	1.89980	6303.6984	1.90025	6316.9379
13/16	1.89937	6291.2989	1.89983	6304.5254	1.90028	6317.7659
7/8	1.89940	6292.1251	1.89985	6305.3525	1.90031	6318.5939
15/16	1.89943	6292.9514	1.89988	6306.1797	1.90034	6319.4219

79'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90037	6320.2500	1.90082	6333.5069	1.90128	6346.7778
1/16	1.90040	6321.0782	1.90085	6334.3360	1.90131	6347.6077
1/8	1.90042	6321.9064	1.90088	6335.1650	1.90133	6348.4376
3/16	1.90045	6322.7346	1.90091	6335.9942	1.90136	6349.2676
1/4	1.90048	6323.5629	1.90094	6336.8234	1.90139	6350.0977
5/16	1.90051	6324.3913	1.90096	6337.6526	1.90142	6350.9278
3/8	1.90054	6325.2197	1.90099	6338.4819	1.90145	6351.7579
7/16	1.90057	6326.0482	1.90102	6339.3112	1.90148	6352.5881
1/2	1.90059	6326.8767	1.90105	6340.1406	1.90150	6353.4184
9/16	1.90062	6327.7053	1.90108	6340.9701	1.90153	6354.2487
5/8	1.90065	6328.5340	1.90111	6341.7996	1.90156	6355.0791
11/16	1.90068	6329.3627	1.90113	6342.6292	1.90159	6355.9095
3/4	1.90071	6330.1914	1.90116	6343.4588	1.90162	6356.7400
13/16	1.90074	6331.0202	1.90119	6344.2884	1.90165	6357.5706
7/8	1.90077	6331.8491	1.90122	6345.1182	1.90167	6358.4012
15/16	1.90079	6332.6780	1.90125	6345.9479	1.90170	6359.2318

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90173	6360.0625	1.90218	6373.3611	1.90264	6386.6736
1/16	1.90176	6360.8933	1.90221	6374.1927	1.90267	6387.5061
1/8	1.90179	6361.7241	1.90224	6375.0244	1.90269	6388.3387
3/16	1.90182	6362.5549	1.90227	6375.8561	1.90272	6389.1713
1/4	1.90184	6363.3859	1.90230	6376.6879	1.90275	6390.0039
5/16	1.90187	6364.2168	1.90233	6377.5198	1.90278	6390.8366
3/8	1.90190	6365.0479	1.90235	6378.3517	1.90281	6391.6694
7/16	1.90193	6365.8789	1.90238	6379.1836	1.90284	6392.5022
1/2	1.90196	6366.7101	1.90241	6380.0156	1.90286	6393.3351
9/16	1.90199	6367.5413	1.90244	6380.8477	1.90289	6394.1680
5/8	1.90201	6368.3725	1.90247	6381.6798	1.90292	6395.0010
11/16	1.90204	6369.2038	1.90250	6382.5120	1.90295	6395.8340
3/4	1.90207	6370.0352	1.90252	6383.3442	1.90298	6396.6671
13/16	1.90210	6370.8666	1.90255	6384.1765	1.90301	6397.5002
7/8	1.90213	6371.6980	1.90258	6385.0088	1.90303	6398.3334
15/16	1.90216	6372.5295	1.90261	6385.8412	1.90306	6399.1667

80'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90309	6400.0000	1.90354	6413.3403	1.90399	6426.6944
1/16	1.90312	6400.8334	1.90357	6414.1745	1.90402	6427.5295
1/8	1.90315	6401.6668	1.90360	6415.0088	1.90405	6428.3647
3/16	1.90317	6402.5002	1.90363	6415.8431	1.90408	6429.1999
1/4	1.90320	6403.3338	1.90366	6416.6775	1.90411	6430.0352
5/16	1.90323	6404.1673	1.90368	6417.5120	1.90413	6430.8705
3/8	1.90326	6405.0010	1.90371	6418.3465	1.90416	6431.7058
7/16	1.90329	6405.8347	1.90374	6419.1810	1.90419	6432.5413
1/2	1.90332	6406.6684	1.90377	6420.0156	1.90422	6433.3767
9/16	1.90334	6407.5022	1.90380	6420.8503	1.90425	6434.2123
5/8	1.90337	6408.3360	1.90382	6421.6850	1.90428	6435.0479
11/16	1.90340	6409.1699	1.90385	6422.5198	1.90430	6435.8835
3/4	1.90343	6410.0039	1.90388	6423.3546	1.90433	6436.7192
13/16	1.90346	6410.8379	1.90391	6424.1895	1.90436	6437.5549
7/8	1.90349	6411.6720	1.90394	6425.0244	1.90439	6438.3907
15/16	1.90351	6412.5061	1.90397	6425.8594	1.90442	6439.2266
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90445	6440.0625	1.90490	6453.4444	1.90535	6466.8403
1/16	1.90447	6440.8985	1.90492	6454.2813	1.90537	6467.6780
1/8	1.90450	6441.7345	1.90495	6455.1182	1.90540	6468.5157
3/16	1.90453	6442.5706	1.90498	6455.9551	1.90543	6469.3535
1/4	1.90456	6443.4067	1.90501	6456.7921	1.90546	6470.1914
5/16	1.90459	6444.2429	1.90504	6457.6292	1.90549	6471.0293
3/8	1.90461	6445.0791	1.90506	6458.4663	1.90551	6471.8673
7/16	1.90464	6445.9154	1.90509	6459.3034	1.90554	6472.7053
1/2	1.90467	6446.7517	1.90512	6460.1406	1.90557	6473.5434
9/16	1.90470	6447.5881	1.90515	6460.9779	1.90560	6474.3815
5/8	1.90473	6448.4246	1.90518	6461.8152	1.90563	6475.2197
11/16	1.90475	6449.2611	1.90521	6462.6526	1.90566	6476.0580
3/4	1.90478	6450.0977	1.90523	6463.4900	1.90568	6476.8963
13/16	1.90481	6450.9343	1.90526	6464.3275	1.90571	6477.7346
7/8	1.90484	6451.7709	1.90529	6465.1650	1.90574	6478.5730
15/16	1.90487	6452.6077	1.90532	6466.0026	1.90577	6479.4115

80'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90580	6480.2500	1.90625	6493.6736	1.90669	6507.1111
1/16	1.90582	6481.0886	1.90627	6494.5130	1.90672	6507.9514
1/8	1.90585	6481.9272	1.90630	6495.3525	1.90675	6508.7918
3/16	1.90588	6482.7659	1.90633	6496.1921	1.90678	6509.6322
1/4	1.90591	6483.6046	1.90636	6497.0317	1.90681	6510.4727
5/16	1.90594	6484.4434	1.90639	6497.8713	1.90683	6511.3132
3/8	1.90596	6485.2822	1.90641	6498.7110	1.90686	6512.1538
7/16	1.90599	6486.1211	1.90644	6499.5508	1.90689	6512.9944
1/2	1.90602	6486.9601	1.90647	6500.3906	1.90692	6513.8351
9/16	1.90605	6487.7991	1.90650	6501.2305	1.90695	6514.6758
5/8	1.90608	6488.6381	1.90653	6502.0704	1.90697	6515.5166
11/16	1.90610	6489.4772	1.90655	6502.9104	1.90700	6516.3574
3/4	1.90613	6490.3164	1.90658	6503.7504	1.90703	6517.1984
13/16	1.90616	6491.1556	1.90661	6504.5905	1.90706	6518.0393
7/8	1.90619	6491.9949	1.90664	6505.4307	1.90709	6518.8803
15/16	1.90622	6492.8342	1.90667	6506.2709	1.90711	6519.7214

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90714	6520.5625	1.90759	6534.0278	1.90804	6547.5069
1/16	1.90717	6521.4037	1.90762	6534.8698	1.90807	6548.3499
1/8	1.90720	6522.2449	1.90765	6535.7119	1.90809	6549.1928
3/16	1.90723	6523.0862	1.90767	6536.5541	1.90812	6550.0358
1/4	1.90725	6523.9275	1.90770	6537.3963	1.90815	6550.8789
5/16	1.90728	6524.7689	1.90773	6538.2385	1.90818	6551.7220
3/8	1.90731	6525.6104	1.90776	6539.0808	1.90821	6552.5652
7/16	1.90734	6526.4519	1.90779	6539.9232	1.90823	6553.4084
1/2	1.90737	6527.2934	1.90781	6540.7656	1.90826	6554.2517
9/16	1.90739	6528.1350	1.90784	6541.6081	1.90829	6555.0951
5/8	1.90742	6528.9767	1.90787	6542.4506	1.90832	6555.9385
11/16	1.90745	6529.8184	1.90790	6543.2932	1.90835	6556.7819
3/4	1.90748	6530.6602	1.90793	6544.1359	1.90837	6557.6254
13/16	1.90751	6531.5020	1.90795	6544.9785	1.90840	6558.4690
7/8	1.90753	6532.3439	1.90798	6545.8213	1.90843	6559.3126
15/16	1.90756	6533.1858	1.90801	6546.6641	1.90846	6560.1563

81'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90849	6561.0000	1.90893	6574.5069	1.90938	6588.0278
1/16	1.90851	6561.8438	1.90896	6575.3516	1.90941	6588.8733
1/8	1.90854	6562.6876	1.90899	6576.1963	1.90943	6589.7189
3/16	1.90857	6563.5315	1.90902	6577.0410	1.90946	6590.5645
1/4	1.90860	6564.3754	1.90904	6577.8859	1.90949	6591.4102
5/16	1.90862	6565.2194	1.90907	6578.7307	1.90952	6592.2559
3/8	1.90865	6566.0635	1.90910	6579.5756	1.90954	6593.1017
7/16	1.90868	6566.9076	1.90913	6580.4206	1.90957	6593.9475
1/2	1.90871	6567.7517	1.90915	6581.2656	1.90960	6594.7934
9/16	1.90874	6568.5959	1.90918	6582.1107	1.90963	6595.6394
5/8	1.90876	6569.4402	1.90921	6582.9558	1.90966	6596.4854
11/16	1.90879	6570.2845	1.90924	6583.8010	1.90968	6597.3314
3/4	1.90882	6571.1289	1.90927	6584.6463	1.90971	6598.1775
13/16	1.90885	6571.9733	1.90929	6585.4916	1.90974	6599.0237
7/8	1.90888	6572.8178	1.90932	6586.3369	1.90977	6599.8699
15/16	1.90890	6573.6624	1.90935	6587.1823	1.90980	6600.7162

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.90982	6601.5625	1.91027	6615.1111	1.91071	6628.6736
1/16	1.90985	6602.4089	1.91030	6615.9584	1.91074	6629.5217
1/8	1.90988	6603.2553	1.91032	6616.8057	1.91077	6630.3699
3/16	1.90991	6604.1018	1.91035	6617.6530	1.91080	6631.2181
1/4	1.90993	6604.9484	1.91038	6618.5004	1.91082	6632.0664
5/16	1.90996	6605.7949	1.91041	6619.3479	1.91085	6632.9147
3/8	1.90999	6606.6416	1.91044	6620.1954	1.91088	6633.7631
7/16	1.91002	6607.4883	1.91046	6621.0430	1.91091	6634.6116
1/2	1.91005	6608.3351	1.91049	6621.8906	1.91094	6635.4601
9/16	1.91007	6609.1819	1.91052	6622.7383	1.91096	6636.3086
5/8	1.91010	6610.0288	1.91055	6623.5860	1.91099	6637.1572
11/16	1.91013	6610.8757	1.91057	6624.4338	1.91102	6638.0059
3/4	1.91016	6611.7227	1.91060	6625.2817	1.91105	6638.8546
13/16	1.91019	6612.5697	1.91063	6626.1296	1.91107	6639.7034
7/8	1.91021	6613.4168	1.91066	6626.9775	1.91110	6640.5522
15/16	1.91024	6614.2639	1.91069	6627.8255	1.91113	6641.4011

81'

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91116	6642.2500	1.91160	6655.8403	1.91204	6669.4444
$\frac{1}{16}$	1.91119	6643.0990	1.91163	6656.6901	1.91207	6670.2952
$\frac{1}{8}$	1.91121	6643.9480	1.91166	6657.5400	1.91210	6671.1459
$\frac{3}{16}$	1.91124	6644.7971	1.91168	6658.3900	1.91213	6671.9968
$\frac{1}{4}$	1.91127	6645.6463	1.91171	6659.2400	1.91216	6672.8477
$\frac{5}{16}$	1.91130	6646.4955	1.91174	6660.0901	1.91218	6673.6986
$\frac{3}{8}$	1.91132	6647.3447	1.91177	6660.9402	1.91221	6674.5496
$\frac{7}{16}$	1.91135	6648.1940	1.91180	6661.7904	1.91224	6675.4006
$\frac{1}{2}$	1.91138	6649.0434	1.91182	6662.6406	1.91227	6676.2517
$\frac{9}{16}$	1.91141	6649.8928	1.91185	6663.4909	1.91229	6677.1029
$\frac{5}{8}$	1.91144	6650.7423	1.91188	6664.3413	1.91232	6677.9541
$\frac{11}{16}$	1.91146	6651.5918	1.91191	6665.1917	1.91235	6678.8054
$\frac{3}{4}$	1.91149	6652.4414	1.91193	6666.0421	1.91238	6679.6567
$\frac{13}{16}$	1.91152	6653.2910	1.91196	6666.8926	1.91240	6680.5081
$\frac{7}{8}$	1.91155	6654.1407	1.91199	6667.7432	1.91243	6681.3595
$\frac{15}{16}$	1.91157	6654.9905	1.91202	6668.5938	1.91246	6682.2110

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91249	6683.0625	1.91293	6696.6944	1.91337	6710.3403
$\frac{1}{16}$	1.91252	6683.9141	1.91296	6697.5469	1.91340	6711.1936
$\frac{1}{8}$	1.91254	6684.7657	1.91299	6698.3994	1.91343	6712.0470
$\frac{3}{16}$	1.91257	6685.6174	1.91301	6699.2520	1.91346	6712.9004
$\frac{1}{4}$	1.91260	6686.4692	1.91304	6700.1046	1.91348	6713.7539
$\frac{5}{16}$	1.91263	6687.3210	1.91307	6700.9573	1.91351	6714.6074
$\frac{3}{8}$	1.91265	6688.1729	1.91310	6701.8100	1.91354	6715.4610
$\frac{7}{16}$	1.91268	6689.0248	1.91312	6702.6628	1.91357	6716.3147
$\frac{1}{2}$	1.91271	6689.8767	1.91315	6703.5156	1.91359	6717.1684
$\frac{9}{16}$	1.91274	6690.7288	1.91318	6704.3685	1.91362	6718.0222
$\frac{5}{8}$	1.91276	6691.5808	1.91321	6705.2215	1.91365	6718.8760
$\frac{11}{16}$	1.91279	6692.4330	1.91323	6706.0745	1.91368	6719.7298
$\frac{3}{4}$	1.91282	6693.2852	1.91326	6706.9275	1.91370	6720.5838
$\frac{13}{16}$	1.91285	6694.1374	1.91329	6707.7806	1.91373	6721.4377
$\frac{7}{8}$	1.91287	6694.9897	1.91332	6708.6338	1.91376	6722.2918
$\frac{15}{16}$	1.91290	6695.8420	1.91334	6709.4870	1.91379	6723.1459

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91381	6724.0000	1.91425	6737.6736	1.91470	6751.3611
1/16	1.91384	6724.8542	1.91428	6738.5287	1.91472	6752.2170
1/8	1.91387	6725.7084	1.91431	6739.3838	1.91475	6753.0730
3/16	1.91390	6726.5627	1.91434	6740.2390	1.91478	6753.9291
1/4	1.91392	6727.4171	1.91437	6741.0942	1.91481	6754.7852
5/16	1.91395	6728.2715	1.91439	6741.9495	1.91483	6755.6413
3/8	1.91398	6729.1260	1.91442	6742.8048	1.91486	6756.4975
7/16	1.91401	6729.9805	1.91445	6743.6602	1.91489	6757.3538
1/2	1.91403	6730.8351	1.91448	6744.5156	1.91492	6758.2101
9/16	1.91406	6731.6897	1.91450	6745.3711	1.91494	6759.0664
5/8	1.91409	6732.5444	1.91453	6746.2267	1.91497	6759.9229
11/16	1.91412	6733.3991	1.91456	6747.0823	1.91500	6760.7793
3/4	1.91414	6734.2539	1.91459	6747.9379	1.91503	6761.6359
13/16	1.91417	6735.1088	1.91461	6748.7936	1.91505	6762.4924
7/8	1.91420	6735.9637	1.91464	6749.6494	1.91508	6763.3491
15/16	1.91423	6736.8186	1.91467	6750.5052	1.91511	6764.2058

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91514	6765.0625	1.91558	6778.7778	1.91602	6792.5069
1/16	1.91516	6765.9193	1.91560	6779.6354	1.91604	6793.3655
1/8	1.91519	6766.7762	1.91563	6780.4932	1.91607	6794.2241
3/16	1.91522	6767.6331	1.91566	6781.3509	1.91610	6795.0827
1/4	1.91525	6768.4900	1.91569	6782.2088	1.91612	6795.9414
5/16	1.91527	6769.3470	1.91571	6783.0667	1.91615	6796.8002
3/8	1.91530	6770.2041	1.91574	6783.9246	1.91618	6797.6590
7/16	1.91533	6771.0612	1.91577	6784.7826	1.91621	6798.5178
1/2	1.91536	6771.9184	1.91580	6785.6406	1.91623	6799.3767
9/16	1.91538	6772.7756	1.91582	6786.4987	1.91626	6800.2357
5/8	1.91541	6773.6329	1.91585	6787.3569	1.91629	6801.0947
11/16	1.91544	6774.4903	1.91588	6788.2151	1.91632	6801.9538
3/4	1.91547	6775.3477	1.91591	6789.0734	1.91634	6802.8129
13/16	1.91549	6776.2051	1.91593	6789.9317	1.91637	6803.6721
7/8	1.91552	6777.0626	1.91596	6790.7900	1.91640	6804.5314
15/16	1.91555	6777.9202	1.91599	6791.6485	1.91643	6805.3907

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91645	6806.2500	1.91689	6820.0069	1.91733	6833.7778
1/16	1.91648	6807.1094	1.91692	6820.8672	1.91736	6834.6389
1/8	1.91651	6807.9689	1.91695	6821.7275	1.91739	6835.5001
3/16	1.91654	6808.8284	1.91697	6822.5879	1.91741	6836.3614
1/4	1.91656	6809.6879	1.91700	6823.4484	1.91744	6837.2227
5/16	1.91659	6810.5476	1.91703	6824.3088	1.91747	6838.0840
3/8	1.91662	6811.4072	1.91706	6825.1694	1.91749	6838.9454
7/16	1.91665	6812.2670	1.91708	6826.0300	1.91752	6839.8069
1/2	1.91667	6813.1267	1.91711	6826.8906	1.91755	6840.6684
9/16	1.91670	6813.9866	1.91714	6827.7513	1.91758	6841.5300
5/8	1.91673	6814.8465	1.91717	6828.6121	1.91760	6842.3916
11/16	1.91676	6815.7064	1.91719	6829.4729	1.91763	6843.2533
3/4	1.91678	6816.5664	1.91722	6830.3338	1.91766	6844.1150
13/16	1.91681	6817.4265	1.91725	6831.1947	1.91769	6844.9768
7/8	1.91684	6818.2866	1.91728	6832.0557	1.91771	6845.8387
15/16	1.91687	6819.1467	1.91730	6832.9167	1.91774	6846.7005

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91777	6847.5625	1.91821	6861.3611	1.91864	6875.1736
1/16	1.91780	6848.4245	1.91823	6862.2240	1.91867	6876.0374
1/8	1.91782	6849.2866	1.91826	6863.0869	1.91870	6876.9012
3/16	1.91785	6850.1487	1.91829	6863.9499	1.91872	6877.7650
1/4	1.91788	6851.0109	1.91831	6864.8129	1.91875	6878.6289
5/16	1.91790	6851.8731	1.91834	6865.6760	1.91878	6879.4929
3/8	1.91793	6852.7354	1.91837	6866.5392	1.91881	6880.3569
7/16	1.91796	6853.5977	1.91840	6867.4024	1.91883	6881.2209
1/2	1.91799	6854.4601	1.91842	6868.2656	1.91886	6882.0851
9/16	1.91801	6855.3225	1.91845	6869.1289	1.91889	6882.9492
5/8	1.91804	6856.1850	1.91848	6869.9923	1.91891	6883.8135
11/16	1.91807	6857.0476	1.91851	6870.8557	1.91894	6884.6778
3/4	1.91810	6857.9102	1.91853	6871.7192	1.91897	6885.5421
13/16	1.91812	6858.7728	1.91856	6872.5827	1.91900	6886.4065
7/8	1.91815	6859.6355	1.91859	6873.4463	1.91902	6887.2709
15/16	1.91818	6860.4983	1.91861	6874.3099	1.91905	6888.1354

83'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.91908	6889.0000	1.91951	6902.8403	1.91995	6916.6944
1/16	1.91911	6889.8646	1.91954	6903.7058	1.91998	6917.5608
1/8	1.91913	6890.7293	1.91957	6904.5713	1.92000	6918.4272
3/16	1.91916	6891.5940	1.91960	6905.4369	1.92003	6919.2936
1/4	1.91919	6892.4588	1.91962	6906.3025	1.92006	6920.1602
5/16	1.91921	6893.3236	1.91965	6907.1682	1.92009	6921.0267
3/8	1.91924	6894.1885	1.91968	6908.0340	1.92011	6921.8933
7/16	1.91927	6895.0534	1.91970	6908.8998	1.92014	6922.7600
1/2	1.91930	6895.9184	1.91973	6909.7656	1.92017	6923.6267
9/16	1.91932	6896.7834	1.91976	6910.6315	1.92019	6924.4935
5/8	1.91935	6897.6485	1.91979	6911.4975	1.92022	6925.3604
11/16	1.91938	6898.5137	1.91981	6912.3635	1.92025	6926.2272
3/4	1.91941	6899.3789	1.91984	6913.2296	1.92028	6927.0942
13/16	1.91943	6900.2442	1.91987	6914.0957	1.92030	6927.9612
7/8	1.91946	6901.1095	1.91989	6914.9619	1.92033	6928.8282
15/16	1.91949	6901.9749	1.91992	6915.8282	1.92036	6929.6953
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92038	6930.5625	1.92082	6944.4444	1.92125	6958.3403
1/16	1.92041	6931.4297	1.92085	6945.3125	1.92128	6959.2092
1/8	1.92044	6932.2970	1.92087	6946.1807	1.92131	6960.0782
3/16	1.92047	6933.1643	1.92090	6947.0489	1.92133	6960.9473
1/4	1.92049	6934.0317	1.92093	6947.9171	1.92136	6961.8164
5/16	1.92052	6934.8991	1.92095	6948.7854	1.92139	6962.6856
3/8	1.92055	6935.7666	1.92098	6949.6538	1.92142	6963.5548
7/16	1.92057	6936.6341	1.92101	6950.5222	1.92144	6964.4241
1/2	1.92060	6937.5017	1.92104	6951.3906	1.92147	6965.2934
9/16	1.92063	6938.3694	1.92106	6952.2591	1.92150	6966.1628
5/8	1.92066	6939.2371	1.92109	6953.1277	1.92152	6967.0322
11/16	1.92068	6940.1048	1.92112	6953.9963	1.92155	6967.9017
3/4	1.92071	6940.9727	1.92114	6954.8650	1.92158	6968.7713
13/16	1.92074	6941.8405	1.92117	6955.7338	1.92161	6969.6409
7/8	1.92076	6942.7084	1.92120	6956.6025	1.92163	6970.5105
15/16	1.92079	6943.5764	1.92123	6957.4714	1.92166	6971.3802

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92169	6972.2500	1.92212	6986.1736	1.92255	7000.1111
1/16	1.92171	6973.1198	1.92215	6987.0443	1.92258	7000.9827
1/8	1.92174	6973.9897	1.92217	6987.9150	1.92261	7001.8543
3/16	1.92177	6974.8596	1.92220	6988.7858	1.92263	7002.7259
1/4	1.92179	6975.7296	1.92223	6989.6567	1.92266	7003.5977
5/16	1.92182	6976.5996	1.92225	6990.5276	1.92269	7004.4694
3/8	1.92185	6977.4697	1.92228	6991.3985	1.92271	7005.3413
7/16	1.92188	6978.3399	1.92231	6992.2696	1.92274	7006.2131
1/2	1.92190	6979.2101	1.92234	6993.1406	1.92277	7007.0851
9/16	1.92193	6980.0803	1.92236	6994.0117	1.92280	7007.9571
5/8	1.92196	6980.9506	1.92239	6994.8829	1.92282	7008.8291
11/16	1.92198	6981.8210	1.92242	6995.7542	1.92285	7009.7012
3/4	1.92201	6982.6914	1.92244	6996.6254	1.92288	7010.5734
13/16	1.92204	6983.5619	1.92247	6997.4968	1.92290	7011.4456
7/8	1.92207	6984.4324	1.92250	6998.3682	1.92293	7012.3178
15/16	1.92209	6985.3030	1.92253	6999.2396	1.92296	7013.1901

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92298	7014.0625	1.92342	7028.0278	1.92385	7042.0069
1/16	1.92301	7014.9349	1.92344	7028.9011	1.92388	7042.8811
1/8	1.92304	7015.8074	1.92347	7029.7744	1.92390	7043.7553
3/16	1.92307	7016.6799	1.92350	7030.6478	1.92393	7044.6296
1/4	1.92309	7017.5525	1.92352	7031.5213	1.92396	7045.5039
5/16	1.92312	7018.4252	1.92355	7032.3948	1.92398	7046.3783
3/8	1.92315	7019.2979	1.92358	7033.2683	1.92401	7047.2527
7/16	1.92317	7020.1706	1.92361	7034.1420	1.92404	7048.1272
1/2	1.92320	7021.0434	1.92363	7035.0156	1.92406	7049.0017
9/16	1.92323	7021.9163	1.92366	7035.8894	1.92409	7049.8763
5/8	1.92325	7022.7892	1.92369	7036.7631	1.92412	7050.7510
11/16	1.92328	7023.6621	1.92371	7037.6370	1.92414	7051.6257
3/4	1.92331	7024.5352	1.92374	7038.5109	1.92417	7052.5004
13/16	1.92334	7025.4082	1.92377	7039.3848	1.92420	7053.3752
7/8	1.92336	7026.2814	1.92379	7040.2588	1.92423	7054.2501
15/16	1.92339	7027.1545	1.92382	7041.1328	1.92425	7055.1250

84'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92428	7056.0000	1.92471	7070.0069	1.92514	7084.0278
1/16	1.92431	7056.8750	1.92474	7070.8828	1.92517	7084.9045
1/8	1.92433	7057.7501	1.92476	7071.7588	1.92519	7085.7814
3/16	1.92436	7058.6252	1.92479	7072.6348	1.92522	7086.6582
1/4	1.92439	7059.5004	1.92482	7073.5109	1.92525	7087.5352
5/16	1.92441	7060.3757	1.92484	7074.3870	1.92527	7088.4121
3/8	1.92444	7061.2510	1.92487	7075.2631	1.92530	7089.2892
7/16	1.92447	7062.1263	1.92490	7076.1394	1.92533	7090.1663
1/2	1.92449	7063.0017	1.92493	7077.0156	1.92536	7091.0434
9/16	1.92452	7063.8772	1.92495	7077.8920	1.92538	7091.9206
5/8	1.92455	7064.7527	1.92498	7078.7683	1.92541	7092.7979
11/16	1.92458	7065.6283	1.92501	7079.6448	1.92544	7093.6752
3/4	1.92460	7066.5039	1.92503	7080.5213	1.92546	7094.5525
13/16	1.92463	7067.3796	1.92506	7081.3978	1.92549	7095.4299
7/8	1.92466	7068.2553	1.92509	7082.2744	1.92552	7096.3074
15/16	1.92468	7069.1311	1.92511	7083.1511	1.92554	7097.1849
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92557	7098.0625	1.92600	7112.1111	1.92643	7126.1736
1/16	1.92560	7098.9401	1.92603	7112.9896	1.92645	7127.0530
1/8	1.92562	7099.8178	1.92605	7113.8682	1.92648	7127.9324
3/16	1.92565	7100.6956	1.92608	7114.7468	1.92651	7128.8119
1/4	1.92568	7101.5734	1.92611	7115.6254	1.92654	7129.6914
5/16	1.92570	7102.4512	1.92613	7116.5042	1.92656	7130.5710
3/8	1.92573	7103.3291	1.92616	7117.3829	1.92659	7131.4506
7/16	1.92576	7104.2071	1.92619	7118.2617	1.92662	7132.3303
1/2	1.92578	7105.0851	1.92621	7119.1406	1.92664	7133.2101
9/16	1.92581	7105.9631	1.92624	7120.0196	1.92667	7134.0899
5/8	1.92584	7106.8413	1.92627	7120.8985	1.92670	7134.9697
11/16	1.92587	7107.7194	1.92629	7121.7776	1.92672	7135.8496
3/4	1.92589	7108.5977	1.92632	7122.6567	1.92675	7136.7296
13/16	1.92592	7109.4759	1.92635	7123.5358	1.92678	7137.6096
7/8	1.92595	7110.3543	1.92637	7124.4150	1.92680	7138.4897
15/16	1.92597	7111.2327	1.92640	7125.2943	1.92683	7139.3698

84'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92686	7140.2500	1.92728	7154.3403	1.92771	7168.4444
1/16	1.92688	7141.1302	1.92731	7155.2214	1.92774	7169.3264
1/8	1.92691	7142.0105	1.92734	7156.1025	1.92777	7170.2084
3/16	1.92694	7142.8909	1.92737	7156.9838	1.92779	7171.0905
1/4	1.92696	7143.7713	1.92739	7157.8650	1.92782	7171.9727
5/16	1.92699	7144.6517	1.92742	7158.7463	1.92785	7172.8548
3/8	1.92702	7145.5322	1.92745	7159.6277	1.92787	7173.7371
7/16	1.92704	7146.4128	1.92747	7160.5091	1.92790	7174.6194
1/2	1.92707	7147.2934	1.92750	7161.3906	1.92793	7175.5017
9/16	1.92710	7148.1741	1.92753	7162.2722	1.92795	7176.3841
5/8	1.92712	7149.0548	1.92755	7163.1538	1.92798	7177.2666
11/16	1.92715	7149.9356	1.92758	7164.0354	1.92801	7178.1491
3/4	1.92718	7150.8164	1.92761	7164.9171	1.92803	7179.0317
13/16	1.92720	7151.6973	1.92763	7165.7989	1.92806	7179.9143
7/8	1.92723	7152.5782	1.92766	7166.6807	1.92809	7180.7970
15/16	1.92726	7153.4592	1.92769	7167.5625	1.92811	7181.6797

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92814	7182.5625	1.92857	7196.6944	1.92899	7210.8403
1/16	1.92817	7183.4453	1.92859	7197.5782	1.92902	7211.7249
1/8	1.92819	7184.3282	1.92862	7198.4619	1.92905	7212.6095
3/16	1.92822	7185.2112	1.92865	7199.3457	1.92907	7213.4942
1/4	1.92825	7186.0942	1.92867	7200.2296	1.92910	7214.3789
5/16	1.92827	7186.9772	1.92870	7201.1135	1.92913	7215.2637
3/8	1.92830	7187.8604	1.92873	7201.9975	1.92915	7216.1485
7/16	1.92833	7188.7435	1.92875	7202.8815	1.92918	7217.0334
1/2	1.92835	7189.6267	1.92878	7203.7656	1.92921	7217.9184
9/16	1.92838	7190.5100	1.92881	7204.6498	1.92923	7218.8034
5/8	1.92841	7191.3933	1.92883	7205.5340	1.92926	7219.6885
11/16	1.92843	7192.2767	1.92886	7206.4182	1.92929	7220.5736
3/4	1.92846	7193.1602	1.92889	7207.3025	1.92931	7221.4588
13/16	1.92849	7194.0436	1.92891	7208.1869	1.92934	7222.3440
7/8	1.92851	7194.9272	1.92894	7209.0713	1.92937	7223.2293
15/16	1.92854	7195.8108	1.92897	7209.9558	1.92939	7224.1146

Fraction of an inch	0'		1'		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.92942	7225.0000	1.92984	7239.1736	1.93027	7253.3611
1/16	1.92945	7225.8854	1.92987	7240.0599	1.93030	7254.2483
1/8	1.92947	7226.7709	1.92990	7240.9463	1.93032	7255.1355
3/16	1.92950	7227.6565	1.92992	7241.8327	1.93035	7256.0228
1/4	1.92953	7228.5421	1.92995	7242.7192	1.93038	7256.9102
5/16	1.92955	7229.4278	1.92998	7243.6057	1.93040	7257.7976
3/8	1.92958	7230.3135	1.93000	7244.4923	1.93043	7258.6850
7/16	1.92961	7231.1992	1.93003	7245.3789	1.93046	7259.5725
1/2	1.92963	7232.0851	1.93006	7246.2656	1.93048	7260.4601
9/16	1.92966	7232.9709	1.93008	7247.1524	1.93051	7261.3477
5/8	1.92968	7233.8569	1.93011	7248.0392	1.93054	7262.2354
11/16	1.92971	7234.7429	1.93014	7248.9260	1.93056	7263.1231
3/4	1.92974	7235.6289	1.93016	7249.8129	1.93059	7264.0109
13/16	1.92976	7236.5150	1.93019	7250.6999	1.93061	7264.8987
7/8	1.92979	7237.4012	1.93022	7251.5869	1.93064	7265.7866
15/16	1.92982	7238.2874	1.93024	7252.4740	1.93067	7266.6745

Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93069	7267.5625	1.93112	7281.7778	1.93154	7296.0069
1/16	1.93072	7268.4505	1.93115	7282.6667	1.93157	7296.8967
1/8	1.93075	7269.3387	1.93117	7283.5557	1.93160	7297.7866
3/16	1.93077	7270.2268	1.93120	7284.4447	1.93162	7298.6765
1/4	1.93080	7271.1150	1.93122	7285.3338	1.93165	7299.5664
5/16	1.93083	7272.0033	1.93125	7286.2229	1.93168	7300.4564
3/8	1.93085	7272.8916	1.93128	7287.1121	1.93170	7301.3465
7/16	1.93088	7273.7800	1.93130	7288.0013	1.93173	7302.2366
1/2	1.93091	7274.6684	1.93133	7288.8906	1.93175	7303.1267
9/16	1.93093	7275.5569	1.93136	7289.7800	1.93178	7304.0170
5/8	1.93096	7276.4454	1.93138	7290.6694	1.93181	7304.9072
11/16	1.93099	7277.3340	1.93141	7291.5588	1.93183	7305.7976
3/4	1.93101	7278.2227	1.93144	7292.4484	1.93186	7306.6879
13/16	1.93104	7279.1114	1.93146	7293.3379	1.93189	7307.5784
7/8	1.93107	7280.0001	1.93149	7294.2275	1.93191	7308.4689
15/16	1.93109	7280.8889	1.93152	7295.1172	1.93194	7309.3594

85'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93197	7310.2500	1.93239	7324.5069	1.93281	7338.7778
1/16	1.93199	7311.1407	1.93242	7325.3985	1.93284	7339.6702
1/8	1.93202	7312.0314	1.93244	7326.2900	1.93286	7340.5626
3/16	1.93205	7312.9221	1.93247	7327.1817	1.93289	7341.4551
1/4	1.93207	7313.8129	1.93249	7328.0734	1.93292	7342.3477
5/16	1.93210	7314.7038	1.93252	7328.9651	1.93294	7343.2403
3/8	1.93212	7315.5947	1.93255	7329.8569	1.93297	7344.1329
7/16	1.93215	7316.4857	1.93257	7330.7487	1.93300	7345.0256
1/2	1.93218	7317.3767	1.93260	7331.6406	1.93302	7345.9184
9/16	1.93220	7318.2678	1.93263	7332.5326	1.93305	7346.8112
5/8	1.93223	7319.1590	1.93265	7333.4246	1.93308	7347.7041
11/16	1.93226	7320.0502	1.93268	7334.3167	1.93310	7348.5970
3/4	1.93228	7320.9414	1.93271	7335.2088	1.93313	7349.4900
13/16	1.93231	7321.8327	1.93273	7336.1009	1.93315	7350.3831
7/8	1.93234	7322.7241	1.93276	7336.9932	1.93318	7351.2762
15/16	1.93236	7323.6155	1.93279	7337.8854	1.93321	7352.1693
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93323	7353.0625	1.93366	7367.3611	1.93408	7381.6736
1/16	1.93326	7353.9558	1.93368	7368.2552	1.93410	7382.5686
1/8	1.93329	7354.8491	1.93371	7369.1494	1.93413	7383.4637
3/16	1.93331	7355.7424	1.93374	7370.0436	1.93416	7384.3588
1/4	1.93334	7356.6359	1.93376	7370.9379	1.93418	7385.2539
5/16	1.93337	7357.5293	1.93379	7371.8323	1.93421	7386.1491
3/8	1.93339	7358.4229	1.93381	7372.7267	1.93424	7387.0444
7/16	1.93342	7359.3164	1.93384	7373.6211	1.93426	7387.9397
1/2	1.93345	7360.2101	1.93387	7374.5156	1.93429	7388.8351
9/16	1.93347	7361.1038	1.93389	7375.4102	1.93431	7389.7305
5/8	1.93350	7361.9975	1.93392	7376.3048	1.93434	7390.6260
11/16	1.93352	7362.8913	1.93395	7377.1995	1.93437	7391.5215
3/4	1.93355	7363.7852	1.93397	7378.0942	1.93439	7392.4171
13/16	1.93358	7364.6791	1.93400	7378.9890	1.93442	7393.3127
7/8	1.93360	7365.5730	1.93402	7379.8838	1.93445	7394.2084
15/16	1.93363	7366.4670	1.93405	7380.7787	1.93447	7395.1042

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93450	7396.0000	1.93492	7410.3403	1.93534	7424.6944
1/16	1.93452	7396.8959	1.93495	7411.2370	1.93537	7425.5920
1/8	1.93455	7397.7918	1.93497	7412.1338	1.93539	7426.4897
3/16	1.93458	7398.6877	1.93500	7413.0306	1.93542	7427.3874
1/4	1.93460	7399.5838	1.93502	7413.9275	1.93544	7428.2852
5/16	1.93463	7400.4798	1.93505	7414.8245	1.93547	7429.1830
3/8	1.93466	7401.3760	1.93508	7415.7215	1.93550	7430.0808
7/16	1.93468	7402.2722	1.93510	7416.6185	1.93552	7430.9788
1/2	1.93471	7403.1684	1.93513	7417.5156	1.93555	7431.8767
9/16	1.93474	7404.0647	1.93516	7418.4128	1.93558	7432.7748
5/8	1.93476	7404.9610	1.93518	7419.3100	1.93560	7433.6729
11/16	1.93479	7405.8574	1.93521	7420.2073	1.93563	7434.5710
3/4	1.93481	7406.7539	1.93523	7421.1046	1.93565	7435.4692
13/16	1.93484	7407.6504	1.93526	7422.0020	1.93568	7436.3674
7/8	1.93487	7408.5470	1.93529	7422.8994	1.93571	7437.2657
15/16	1.93489	7409.4436	1.93531	7423.7969	1.93573	7438.1641

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93576	7439.0625	1.93618	7453.4444	1.93660	7467.8403
1/16	1.93579	7439.9610	1.93620	7454.3438	1.93662	7468.7405
1/8	1.93581	7440.8595	1.93623	7455.2432	1.93665	7469.6407
3/16	1.93584	7441.7581	1.93626	7456.1426	1.93668	7470.5410
1/4	1.93586	7442.6567	1.93628	7457.0421	1.93670	7471.4414
5/16	1.93589	7443.5554	1.93631	7457.9417	1.93673	7472.3418
3/8	1.93592	7444.4541	1.93634	7458.8413	1.93675	7473.2423
7/16	1.93594	7445.3529	1.93636	7459.7409	1.93678	7474.1428
1/2	1.93597	7446.2517	1.93639	7460.6406	1.93681	7475.0434
9/16	1.93600	7447.1506	1.93641	7461.5404	1.93683	7475.9440
5/8	1.93602	7448.0496	1.93644	7462.4402	1.93686	7476.8447
11/16	1.93605	7448.9486	1.93647	7463.3401	1.93689	7477.7455
3/4	1.93607	7449.8477	1.93649	7464.2400	1.93691	7478.6463
13/16	1.93610	7450.7468	1.93652	7465.1400	1.93694	7479.5471
7/8	1.93613	7451.6459	1.93655	7466.0400	1.93696	7480.4480
15/16	1.93615	7452.5452	1.93657	7466.9401	1.93699	7481.3490

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93702	7482.2500	1.93743	7496.6736	1.93785	7511.1111
1/16	1.93704	7483.1511	1.93746	7497.5755	1.93788	7512.0139
1/8	1.93707	7484.0522	1.93749	7498.4775	1.93790	7512.9168
3/16	1.93709	7484.9534	1.93751	7499.3796	1.93793	7513.8197
1/4	1.93712	7485.8546	1.93754	7500.2817	1.93796	7514.7227
5/16	1.93715	7486.7559	1.93756	7501.1838	1.93798	7515.6257
3/8	1.93717	7487.6572	1.93759	7502.0860	1.93801	7516.5288
7/16	1.93720	7488.5586	1.93762	7502.9883	1.93803	7517.4319
1/2	1.93723	7489.4601	1.93764	7503.8906	1.93806	7518.3351
9/16	1.93725	7490.3616	1.93767	7504.7930	1.93809	7519.2383
5/8	1.93728	7491.2631	1.93770	7505.6954	1.93811	7520.1416
11/16	1.93730	7492.1647	1.93772	7506.5979	1.93814	7521.0449
3/4	1.93733	7493.0664	1.93775	7507.5004	1.93817	7521.9484
13/16	1.93736	7493.9681	1.93777	7508.4030	1.93819	7522.8518
7/8	1.93738	7494.8699	1.93780	7509.3057	1.93822	7523.7553
15/16	1.93741	7495.7717	1.93783	7510.2084	1.93824	7524.6589

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93827	7525.5625	1.93869	7540.0278	1.93910	7554.5069
1/16	1.93830	7526.4662	1.93871	7540.9323	1.93913	7555.4124
1/8	1.93832	7527.3699	1.93874	7541.8369	1.93916	7556.3178
3/16	1.93835	7528.2737	1.93876	7542.7416	1.93918	7557.2233
1/4	1.93837	7529.1775	1.93879	7543.6463	1.93921	7558.1289
5/16	1.93840	7530.0814	1.93882	7544.5510	1.93923	7559.0345
3/8	1.93843	7530.9854	1.93884	7545.4558	1.93926	7559.9402
7/16	1.93845	7531.8894	1.93887	7546.3607	1.93929	7560.8459
1/2	1.93848	7532.7934	1.93889	7547.2656	1.93931	7561.7517
9/16	1.93850	7533.6975	1.93892	7548.1706	1.93934	7562.6576
5/8	1.93853	7534.6017	1.93895	7549.0756	1.93936	7563.5635
11/16	1.93856	7535.5059	1.93897	7549.9807	1.93939	7564.4694
3/4	1.93858	7536.4102	1.93900	7550.8859	1.93942	7565.3754
13/16	1.93861	7537.3145	1.93902	7551.7910	1.93944	7566.2815
7/8	1.93863	7538.2189	1.93905	7552.6963	1.93947	7567.1876
15/16	1.93866	7539.1233	1.93908	7553.6016	1.93949	7568.0938

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.93952	7569.0000	1.93994	7583.5069	1.94035	7598.0278
1/16	1.93955	7569.9063	1.93996	7584.4141	1.94038	7598.9358
1/8	1.93957	7570.8126	1.93999	7585.3213	1.94040	7599.8439
3/16	1.93960	7571.7190	1.94001	7586.2285	1.94043	7600.7520
1/4	1.93962	7572.6254	1.94004	7587.1359	1.94045	7601.6602
5/16	1.93965	7573.5319	1.94006	7588.0432	1.94048	7602.5684
3/8	1.93968	7574.4385	1.94009	7588.9506	1.94051	7603.4767
7/16	1.93970	7575.3451	1.94012	7589.8581	1.94053	7604.3850
1/2	1.93973	7576.2517	1.94014	7590.7656	1.94056	7605.2934
9/16	1.93975	7577.1584	1.94017	7591.6732	1.94058	7606.2019
5/8	1.93978	7578.0652	1.94019	7592.5808	1.94061	7607.1104
11/16	1.93981	7578.9720	1.94022	7593.4885	1.94064	7608.0189
3/4	1.93983	7579.8789	1.94025	7594.3963	1.94066	7608.9275
13/16	1.93986	7580.7858	1.94027	7595.3041	1.94069	7609.8362
7/8	1.93988	7581.6928	1.94030	7596.2119	1.94071	7610.7449
15/16	1.93991	7582.5999	1.94032	7597.1198	1.94074	7611.6537
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94077	7612.5625	1.94118	7627.1111	1.94159	7641.6736
1/16	1.94079	7613.4714	1.94121	7628.0209	1.94162	7642.5842
1/8	1.94082	7614.3803	1.94123	7628.9307	1.94165	7643.4949
3/16	1.94084	7615.2893	1.94126	7629.8405	1.94167	7644.4056
1/4	1.94087	7616.1984	1.94128	7630.7504	1.94170	7645.3164
5/16	1.94090	7617.1074	1.94131	7631.6604	1.94172	7646.2272
3/8	1.94092	7618.0166	1.94134	7632.5704	1.94175	7647.1381
7/16	1.94095	7618.9258	1.94136	7633.4805	1.94178	7648.0491
1/2	1.94097	7619.8351	1.94139	7634.3906	1.94180	7648.9601
9/16	1.94100	7620.7444	1.94141	7635.3008	1.94183	7649.8711
5/8	1.94102	7621.6538	1.94144	7636.2110	1.94185	7650.7822
11/16	1.94105	7622.5632	1.94146	7637.1213	1.94188	7651.6934
3/4	1.94108	7623.4727	1.94149	7638.0317	1.94190	7652.6046
13/16	1.94110	7624.3822	1.94152	7638.9421	1.94193	7653.5159
7/8	1.94113	7625.2918	1.94154	7639.8525	1.94196	7654.4272
15/16	1.94115	7626.2014	1.94157	7640.7630	1.94198	7655.3386

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94201	7656.2500	1.94242	7670.8403	1.94283	7685.4444
1/16	1.94203	7657.1615	1.94245	7671.7526	1.94286	7686.3577
1/8	1.94206	7658.0730	1.94247	7672.6650	1.94289	7687.2709
3/16	1.94209	7658.9846	1.94250	7673.5775	1.94291	7688.1843
1/4	1.94211	7659.8963	1.94252	7674.4900	1.94294	7689.0977
5/16	1.94214	7660.8080	1.94255	7675.4026	1.94296	7690.0111
3/8	1.94216	7661.7197	1.94258	7676.3152	1.94299	7690.9246
7/16	1.94219	7662.6315	1.94260	7677.2279	1.94302	7691.8381
1/2	1.94221	7663.5434	1.94263	7678.1406	1.94304	7692.7517
9/16	1.94224	7664.4553	1.94265	7679.0534	1.94307	7693.6654
5/8	1.94227	7665.3673	1.94268	7679.9663	1.94309	7694.5791
11/16	1.94229	7666.2793	1.94271	7680.8792	1.94312	7695.4929
3/4	1.94232	7667.1914	1.94273	7681.7921	1.94314	7696.4067
13/16	1.94234	7668.1035	1.94276	7682.7051	1.94317	7697.3206
7/8	1.94237	7669.0157	1.94278	7683.6182	1.94320	7698.2345
15/16	1.94240	7669.9280	1.94281	7684.5313	1.94322	7699.1485

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94325	7700.0625	1.94366	7714.6944	1.94407	7729.3403
1/16	1.94327	7700.9766	1.94369	7715.6094	1.94410	7730.2561
1/8	1.94330	7701.8907	1.94371	7716.5244	1.94412	7731.1720
3/16	1.94332	7702.8049	1.94374	7717.4395	1.94415	7732.0879
1/4	1.94335	7703.7192	1.94376	7718.3546	1.94417	7733.0039
5/16	1.94338	7704.6335	1.94379	7719.2698	1.94420	7733.9199
3/8	1.94340	7705.5479	1.94381	7720.1850	1.94423	7734.8360
7/16	1.94343	7706.4623	1.94384	7721.1003	1.94425	7735.7522
1/2	1.94345	7707.3767	1.94387	7722.0156	1.94428	7736.6684
9/16	1.94348	7708.2913	1.94389	7722.9310	1.94430	7737.5847
5/8	1.94350	7709.2058	1.94392	7723.8465	1.94433	7738.5010
11/16	1.94353	7710.1205	1.94394	7724.7620	1.94435	7739.4173
3/4	1.94356	7711.0352	1.94397	7725.6775	1.94438	7740.3338
13/16	1.94358	7711.9499	1.94399	7726.5931	1.94441	7741.2502
7/8	1.94361	7712.8647	1.94402	7727.5088	1.94443	7742.1668
15/16	1.94363	7713.7795	1.94405	7728.4245	1.94446	7743.0834

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94448	7744.0000	1.94489	7758.6736	1.94530	7773.3611
1/16	1.94451	7744.9167	1.94492	7759.5912	1.94533	7774.2795
1/8	1.94453	7745.8334	1.94495	7760.5088	1.94536	7775.1980
3/16	1.94456	7746.7502	1.94497	7761.4265	1.94538	7776.1166
1/4	1.94459	7747.6671	1.94500	7762.3442	1.94541	7777.0352
5/16	1.94461	7748.5840	1.94502	7763.2620	1.94543	7777.9538
3/8	1.94464	7749.5010	1.94505	7764.1798	1.94546	7778.8725
7/16	1.94466	7750.4180	1.94507	7765.0977	1.94548	7779.7913
1/2	1.94469	7751.3351	1.94510	7766.0156	1.94551	7780.7101
9/16	1.94471	7752.2522	1.94512	7766.9336	1.94554	7781.6289
5/8	1.94474	7753.1694	1.94515	7767.8517	1.94556	7782.5479
11/16	1.94477	7754.0866	1.94518	7768.7698	1.94559	7783.4668
3/4	1.94479	7755.0039	1.94520	7769.6879	1.94561	7784.3859
13/16	1.94482	7755.9213	1.94523	7770.6061	1.94564	7785.3049
7/8	1.94484	7756.8387	1.94525	7771.5244	1.94566	7786.2241
15/16	1.94487	7757.7561	1.94528	7772.4427	1.94569	7787.1433

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94571	7788.0625	1.94612	7802.7778	1.94653	7817.5069
1/16	1.94574	7788.9818	1.94615	7803.6979	1.94656	7818.4280
1/8	1.94577	7789.9012	1.94618	7804.6182	1.94659	7819.3491
3/16	1.94579	7790.8206	1.94620	7805.5384	1.94661	7820.2702
1/4	1.94582	7791.7400	1.94623	7806.4588	1.94664	7821.1914
5/16	1.94584	7792.6595	1.94625	7807.3792	1.94666	7822.1127
3/8	1.94587	7793.5791	1.94628	7808.2996	1.94669	7823.0340
7/16	1.94589	7794.4987	1.94630	7809.2201	1.94671	7823.9553
1/2	1.94592	7795.4184	1.94633	7810.1406	1.94674	7824.8767
9/16	1.94595	7796.3381	1.94636	7811.0612	1.94676	7825.7982
5/8	1.94597	7797.2579	1.94638	7811.9819	1.94679	7826.7197
11/16	1.94600	7798.1778	1.94641	7812.9026	1.94682	7827.6413
3/4	1.94602	7799.0977	1.94643	7813.8234	1.94684	7828.5629
13/16	1.94605	7800.0176	1.94646	7814.7442	1.94687	7829.4846
7/8	1.94607	7800.9376	1.94648	7815.6650	1.94689	7830.4064
15/16	1.94610	7801.8577	1.94651	7816.5860	1.94692	7831.3282

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94694	7832.2500	1.94735	7847.0069	1.94776	7861.7778
1/16	1.94697	7833.1719	1.94738	7847.9297	1.94779	7862.7014
1/8	1.94699	7834.0939	1.94740	7848.8525	1.94781	7863.6251
3/16	1.94702	7835.0159	1.94743	7849.7754	1.94784	7864.5489
1/4	1.94705	7835.9379	1.94745	7850.6984	1.94786	7865.4727
5/16	1.94707	7836.8601	1.94748	7851.6213	1.94789	7866.3965
3/8	1.94710	7837.7822	1.94751	7852.5444	1.94791	7867.3204
7/16	1.94712	7838.7045	1.94753	7853.4675	1.94794	7868.2444
1/2	1.94715	7839.6267	1.94756	7854.3906	1.94796	7869.1684
9/16	1.94717	7840.5491	1.94758	7855.3138	1.94799	7870.0925
5/8	1.94720	7841.4715	1.94761	7856.2371	1.94802	7871.0166
11/16	1.94722	7842.3939	1.94763	7857.1604	1.94804	7871.9408
3/4	1.94725	7843.3164	1.94766	7858.0838	1.94807	7872.8650
13/16	1.94728	7844.2390	1.94768	7859.0072	1.94809	7873.7893
7/8	1.94730	7845.1616	1.94771	7859.9307	1.94812	7874.7137
15/16	1.94733	7846.0842	1.94773	7860.8542	1.94814	7875.6380

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94817	7876.5625	1.94858	7891.3611	1.94898	7906.1736
1/16	1.94819	7877.4870	1.94860	7892.2865	1.94901	7907.0999
1/8	1.94822	7878.4116	1.94863	7893.2119	1.94903	7908.0262
3/16	1.94824	7879.3362	1.94865	7894.1374	1.94906	7908.9525
1/4	1.94827	7880.2609	1.94868	7895.0629	1.94908	7909.8789
5/16	1.94830	7881.1856	1.94870	7895.9885	1.94911	7910.8054
3/8	1.94832	7882.1104	1.94873	7896.9142	1.94914	7911.7319
7/16	1.94835	7883.0352	1.94875	7897.8399	1.94916	7912.6584
1/2	1.94837	7883.9601	1.94878	7898.7656	1.94919	7913.5851
9/16	1.94840	7884.8850	1.94881	7899.6914	1.94921	7914.5117
5/8	1.94842	7885.8100	1.94883	7900.6173	1.94924	7915.4385
11/16	1.94845	7886.7351	1.94886	7901.5432	1.94926	7916.3653
3/4	1.94847	7887.6602	1.94888	7902.4692	1.94929	7917.2921
13/16	1.94850	7888.5853	1.94891	7903.3952	1.94931	7918.2190
7/8	1.94853	7889.5105	1.94893	7904.3213	1.94934	7919.1459
15/16	1.94855	7890.4358	1.94896	7905.2474	1.94936	7920.0729

89'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.94939	7921.0000	1.94980	7935.8403	1.95020	7950.6944
$\frac{1}{16}$	1.94942	7921.9271	1.94982	7936.7683	1.95023	7951.6233
$\frac{1}{8}$	1.94944	7922.8543	1.94985	7937.6963	1.95025	7952.5522
$\frac{3}{16}$	1.94947	7923.7815	1.94987	7938.6244	1.95028	7953.4811
$\frac{1}{4}$	1.94949	7924.7088	1.94990	7939.5525	1.95030	7954.4102
$\frac{5}{16}$	1.94952	7925.6361	1.94992	7940.4807	1.95033	7955.3392
$\frac{3}{8}$	1.94954	7926.5635	1.94995	7941.4090	1.95035	7956.2683
$\frac{7}{16}$	1.94957	7927.4909	1.94997	7942.3373	1.95038	7957.1975
$\frac{1}{2}$	1.94959	7928.4184	1.95000	7943.2656	1.95041	7958.1267
$\frac{9}{16}$	1.94962	7929.3459	1.95002	7944.1940	1.95043	7959.0560
$\frac{5}{8}$	1.94964	7930.2735	1.95005	7945.1225	1.95046	7959.9854
$\frac{11}{16}$	1.94967	7931.2012	1.95008	7946.0510	1.95048	7960.9147
$\frac{3}{4}$	1.94969	7932.1289	1.95010	7946.9796	1.95051	7961.8442
$\frac{13}{16}$	1.94972	7933.0567	1.95013	7947.9082	1.95053	7962.7737
$\frac{7}{8}$	1.94975	7933.9845	1.95015	7948.8369	1.95056	7963.7032
$\frac{15}{16}$	1.94977	7934.9124	1.95018	7949.7657	1.95058	7964.6328

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95061	7965.5625	1.95101	7980.4444	1.95142	7995.3403
$\frac{1}{16}$	1.95063	7966.4922	1.95104	7981.3750	1.95144	7996.2717
$\frac{1}{8}$	1.95066	7967.4220	1.95106	7982.3057	1.95147	7997.2032
$\frac{3}{16}$	1.95068	7968.3518	1.95109	7983.2364	1.95149	7998.1348
$\frac{1}{4}$	1.95071	7969.2817	1.95111	7984.1671	1.95152	7999.0664
$\frac{5}{16}$	1.95073	7970.2116	1.95114	7985.0979	1.95154	7999.9981
$\frac{3}{8}$	1.95076	7971.1416	1.95117	7986.0288	1.95157	8000.9298
$\frac{7}{16}$	1.95079	7972.0716	1.95119	7986.9597	1.95160	8001.8616
$\frac{1}{2}$	1.95081	7973.0017	1.95122	7987.8906	1.95162	8002.7934
$\frac{9}{16}$	1.95084	7973.9319	1.95124	7988.8216	1.95165	8003.7253
$\frac{5}{8}$	1.95086	7974.8621	1.95127	7989.7527	1.95167	8004.6572
$\frac{11}{16}$	1.95089	7975.7923	1.95129	7990.6838	1.95170	8005.5892
$\frac{3}{4}$	1.95091	7976.7227	1.95132	7991.6150	1.95172	8006.5213
$\frac{13}{16}$	1.95094	7977.6530	1.95134	7992.5463	1.95175	8007.4534
$\frac{7}{8}$	1.95096	7978.5834	1.95137	7993.4775	1.95177	8008.3855
$\frac{15}{16}$	1.95099	7979.5139	1.95139	7994.4089	1.95180	8009.3177

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95182	8010.2500	1.95223	8025.1736	1.95263	8040.1111
1/16	1.95185	8011.1823	1.95225	8026.1068	1.95266	8041.0452
1/8	1.95187	8012.1147	1.95228	8027.0400	1.95268	8041.9793
3/16	1.95190	8013.0471	1.95230	8027.9733	1.95271	8042.9134
1/4	1.95192	8013.9796	1.95233	8028.9067	1.95273	8043.8477
5/16	1.95195	8014.9121	1.95235	8029.8401	1.95276	8044.7819
3/8	1.95197	8015.8447	1.95238	8030.7735	1.95278	8045.7163
7/16	1.95200	8016.7774	1.95240	8031.7071	1.95281	8046.6506
1/2	1.95203	8017.7101	1.95243	8032.6406	1.95283	8047.5851
9/16	1.95205	8018.6428	1.95245	8033.5742	1.95286	8048.5196
5/8	1.95208	8019.5756	1.95248	8034.5079	1.95288	8049.4541
11/16	1.95210	8020.5085	1.95250	8035.4417	1.95291	8050.3887
3/4	1.95213	8021.4414	1.95253	8036.3754	1.95293	8051.3234
13/16	1.95215	8022.3744	1.95256	8037.3093	1.95296	8052.2581
7/8	1.95218	8023.3074	1.95258	8038.2432	1.95298	8053.1928
15/16	1.95220	8024.2405	1.95261	8039.1771	1.95301	8054.1276
Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95303	8055.0625	1.95344	8070.0278	1.95384	8085.0069
1/16	1.95306	8055.9974	1.95346	8070.9636	1.95387	8085.9436
1/8	1.95308	8056.9324	1.95349	8071.8994	1.95389	8086.8803
3/16	1.95311	8057.8674	1.95351	8072.8353	1.95392	8087.8171
1/4	1.95314	8058.8025	1.95354	8073.7713	1.95394	8088.7539
5/16	1.95316	8059.7377	1.95356	8074.7073	1.95397	8089.6908
3/8	1.95319	8060.6729	1.95359	8075.6433	1.95399	8090.6277
7/16	1.95321	8061.6081	1.95361	8076.5795	1.95402	8091.5647
1/2	1.95324	8062.5434	1.95364	8077.5156	1.95404	8092.5017
9/16	1.95326	8063.4788	1.95366	8078.4519	1.95407	8093.4388
5/8	1.95329	8064.4142	1.95369	8079.3881	1.95409	8094.3760
11/16	1.95331	8065.3496	1.95371	8080.3245	1.95412	8095.3132
3/4	1.95334	8066.2852	1.95374	8081.2609	1.95414	8096.2504
13/16	1.95336	8067.2207	1.95376	8082.1973	1.95417	8097.1877
7/8	1.95339	8068.1564	1.95379	8083.1338	1.95419	8098.1251
15/16	1.95341	8069.0920	1.95382	8084.0703	1.95422	8099.0625

90'

Fraction of an Inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95424	8100.0000	1.95464	8115.0069	1.95505	8130.0278
1/16	1.95427	8100.9375	1.95467	8115.9453	1.95507	8130.9670
1/8	1.95429	8101.8751	1.95469	8116.8838	1.95510	8131.9064
3/16	1.95432	8102.8127	1.95472	8117.8223	1.95512	8132.8457
1/4	1.95434	8103.7504	1.95474	8118.7609	1.95515	8133.7852
5/16	1.95437	8104.6882	1.95477	8119.6995	1.95517	8134.7246
3/8	1.95439	8105.6260	1.95480	8120.6381	1.95520	8135.6642
7/16	1.95442	8106.5638	1.95482	8121.5769	1.95522	8136.6038
1/2	1.95444	8107.5017	1.95485	8122.5156	1.95525	8137.5434
9/16	1.95447	8108.4397	1.95487	8123.4545	1.95527	8138.4831
5/8	1.95449	8109.3777	1.95490	8124.3933	1.95530	8139.4229
11/16	1.95452	8110.3158	1.95492	8125.3323	1.95532	8140.3627
3/4	1.95454	8111.2539	1.95495	8126.2713	1.95535	8141.3025
13/16	1.95457	8112.1921	1.95497	8127.2103	1.95537	8142.2424
7/8	1.95459	8113.1303	1.95500	8128.1494	1.95540	8143.1824
15/16	1.95462	8114.0686	1.95502	8129.0886	1.95542	8144.1224

Fraction of an Inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95545	8145.0625	1.95585	8160.1111	1.95625	8175.1736
1/16	1.95547	8146.0026	1.95587	8161.0521	1.95627	8176.1155
1/8	1.95550	8146.9428	1.95590	8161.9932	1.95630	8177.0574
3/16	1.95552	8147.8831	1.95592	8162.9343	1.95632	8177.9994
1/4	1.95555	8148.8234	1.95595	8163.8754	1.95635	8178.9414
5/16	1.95557	8149.7637	1.95597	8164.8167	1.95637	8179.8835
3/8	1.95560	8150.7041	1.95600	8165.7579	1.95640	8180.8256
7/16	1.95562	8151.6446	1.95602	8166.6992	1.95642	8181.7678
1/2	1.95565	8152.5851	1.95605	8167.6406	1.95645	8182.7101
9/16	1.95567	8153.5256	1.95607	8168.5821	1.95647	8183.6524
5/8	1.95570	8154.4663	1.95610	8169.5235	1.95650	8184.5947
11/16	1.95572	8155.4069	1.95612	8170.4651	1.95652	8185.5371
3/4	1.95575	8156.3477	1.95615	8171.4067	1.95655	8186.4796
13/16	1.95577	8157.2884	1.95617	8172.3483	1.95657	8187.4221
7/8	1.95580	8158.2293	1.95620	8173.2900	1.95660	8188.3647
15/16	1.95582	8159.1702	1.95622	8174.2318	1.95662	8189.3073

90'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95665	8190.2500	1.95705	8205.3403	1.95745	8220.4444
1/16	1.95667	8191.1927	1.95707	8206.2839	1.95747	8221.3889
1/8	1.95670	8192.1355	1.95710	8207.2275	1.95750	8222.3334
3/16	1.95672	8193.0784	1.95712	8208.1713	1.95752	8223.2780
1/4	1.95675	8194.0213	1.95715	8209.1150	1.95755	8224.2227
5/16	1.95677	8194.9642	1.95717	8210.0588	1.95757	8225.1673
3/8	1.95680	8195.9072	1.95720	8211.0027	1.95760	8226.1121
7/16	1.95682	8196.8503	1.95722	8211.9466	1.95762	8227.0569
1/2	1.95685	8197.7934	1.95725	8212.8906	1.95765	8228.0017
9/16	1.95687	8198.7366	1.95727	8213.8347	1.95767	8228.9466
5/8	1.95690	8199.6798	1.95730	8214.7788	1.95770	8229.8916
11/16	1.95692	8200.6231	1.95732	8215.7229	1.95772	8230.8366
3/4	1.95695	8201.5664	1.95735	8216.6671	1.95775	8231.7817
13/16	1.95697	8202.5098	1.95737	8217.6114	1.95777	8232.7268
7/8	1.95700	8203.4532	1.95740	8218.5557	1.95780	8233.6720
15/16	1.95702	8204.3967	1.95742	8219.5000	1.95782	8234.6172

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95785	8235.5625	1.95825	8250.6944	1.95864	8265.8403
1/16	1.95787	8236.5078	1.95827	8251.6407	1.95867	8266.7874
1/8	1.95790	8237.4532	1.95830	8252.5869	1.95869	8267.7345
3/16	1.95792	8238.3987	1.95832	8253.5332	1.95872	8268.6817
1/4	1.95795	8239.3442	1.95834	8254.4796	1.95874	8269.6289
5/16	1.95797	8240.2897	1.95837	8255.4260	1.95877	8270.5762
3/8	1.95800	8241.2354	1.95839	8256.3725	1.95879	8271.5235
7/16	1.95802	8242.1810	1.95842	8257.3190	1.95882	8272.4709
1/2	1.95805	8243.1267	1.95844	8258.2656	1.95884	8273.4184
9/16	1.95807	8244.0725	1.95847	8259.2123	1.95887	8274.3659
5/8	1.95810	8245.0183	1.95849	8260.1590	1.95889	8275.3135
11/16	1.95812	8245.9642	1.95852	8261.1057	1.95892	8276.2611
3/4	1.95815	8246.9102	1.95854	8262.0525	1.95894	8277.2088
13/16	1.95817	8247.8561	1.95857	8262.9994	1.95897	8278.1565
7/8	1.95820	8248.8022	1.95859	8263.9463	1.95899	8279.1043
15/16	1.95822	8249.7483	1.95862	8264.8933	1.95902	8280.0521

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.95904	8281.0000	1.95944	8296.1736	1.95984	8311.3611
1/16	1.95907	8281.9479	1.95946	8297.1224	1.95986	8312.3108
1/8	1.95909	8282.8959	1.95949	8298.0713	1.95989	8313.2605
3/16	1.95912	8283.8440	1.95951	8299.0202	1.95991	8314.2103
1/4	1.95914	8284.7921	1.95954	8299.9692	1.95994	8315.1602
5/16	1.95917	8285.7403	1.95956	8300.9182	1.95996	8316.1101
3/8	1.95919	8286.6885	1.95959	8301.8673	1.95998	8317.0600
7/16	1.95922	8287.6367	1.95961	8302.8164	1.96001	8318.0100
1/2	1.95924	8288.5851	1.95964	8303.7656	1.96003	8318.9601
9/16	1.95927	8289.5334	1.95966	8304.7149	1.96006	8319.9102
5/8	1.95929	8290.4819	1.95969	8305.6642	1.96008	8320.8604
11/16	1.95931	8291.4304	1.95971	8306.6135	1.96011	8321.8106
3/4	1.95934	8292.3789	1.95974	8307.5629	1.96013	8322.7609
13/16	1.95936	8293.3275	1.95976	8308.5124	1.96016	8323.7112
7/8	1.95939	8294.2762	1.95979	8309.4619	1.96018	8324.6616
15/16	1.95941	8295.2249	1.95981	8310.4115	1.96021	8325.6120
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96023	8326.5625	1.96063	8341.7778	1.96103	8357.0069
1/16	1.96026	8327.5130	1.96065	8342.7292	1.96105	8357.9592
1/8	1.96028	8328.4637	1.96068	8343.6807	1.96107	8358.9116
3/16	1.96031	8329.4143	1.96070	8344.6322	1.96110	8359.8640
1/4	1.96033	8330.3650	1.96073	8345.5838	1.96112	8360.8164
5/16	1.96036	8331.3158	1.96075	8346.5354	1.96115	8361.7689
3/8	1.96038	8332.2666	1.96078	8347.4871	1.96117	8362.7215
7/16	1.96041	8333.2175	1.96080	8348.4388	1.96120	8363.6741
1/2	1.96043	8334.1684	1.96083	8349.3906	1.96122	8364.6267
9/16	1.96046	8335.1194	1.96085	8350.3425	1.96125	8365.5795
5/8	1.96048	8336.0704	1.96088	8351.2944	1.96127	8366.5322
11/16	1.96051	8337.0215	1.96090	8352.2463	1.96130	8367.4851
3/4	1.96053	8337.9727	1.96093	8353.1984	1.96132	8368.4379
13/16	1.96056	8338.9239	1.96095	8354.1504	1.96135	8369.3909
7/8	1.96058	8339.8751	1.96098	8355.1025	1.96137	8370.3439
15/16	1.96060	8340.8264	1.96100	8356.0547	1.96140	8371.2969

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96142	8372.2500	1.96182	8387.5069	1.96221	8402.7778
1/16	1.96145	8373.2032	1.96184	8388.4610	1.96224	8403.7327
1/8	1.96147	8374.1564	1.96187	8389.4150	1.96226	8404.6876
3/16	1.96150	8375.1096	1.96189	8390.3692	1.96229	8405.6426
1/4	1.96152	8376.0629	1.96192	8391.3234	1.96231	8406.5977
5/16	1.96154	8377.0163	1.96194	8392.2776	1.96233	8407.5528
3/8	1.96157	8377.9697	1.96196	8393.2319	1.96236	8408.5079
7/16	1.96159	8378.9232	1.96199	8394.1862	1.96238	8409.4631
1/2	1.96162	8379.8767	1.96201	8395.1406	1.96241	8410.4184
9/16	1.96164	8380.8303	1.96204	8396.0951	1.96243	8411.3737
5/8	1.96167	8381.7840	1.96206	8397.0496	1.96246	8412.3291
11/16	1.96169	8382.7377	1.96209	8398.0042	1.96248	8413.2845
3/4	1.96172	8383.6914	1.96211	8398.9588	1.96251	8414.2400
13/16	1.96174	8384.6452	1.96214	8399.9134	1.96253	8415.1956
7/8	1.96177	8385.5991	1.96216	8400.8682	1.96256	8416.1512
15/16	1.96179	8386.5530	1.96219	8401.8229	1.96258	8417.1068

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96261	8418.0625	1.96300	8433.3611	1.96339	8448.6736
1/16	1.96263	8419.0183	1.96302	8434.3177	1.96342	8449.6311
1/8	1.96266	8419.9741	1.96305	8435.2744	1.96344	8450.5887
3/16	1.96268	8420.9299	1.96307	8436.2311	1.96347	8451.5463
1/4	1.96270	8421.8859	1.96310	8437.1879	1.96349	8452.5039
5/16	1.96273	8422.8418	1.96312	8438.1448	1.96352	8453.4616
3/8	1.96275	8423.7979	1.96315	8439.1017	1.96354	8454.4194
7/16	1.96278	8424.7539	1.96317	8440.0586	1.96357	8455.3772
1/2	1.96280	8425.7101	1.96320	8441.0156	1.96359	8456.3351
9/16	1.96283	8426.6663	1.96322	8441.9727	1.96362	8457.2930
5/8	1.96285	8427.6225	1.96325	8442.9298	1.96364	8458.2510
11/16	1.96288	8428.5788	1.96327	8443.8870	1.96366	8459.2090
3/4	1.96290	8429.5352	1.96330	8444.8442	1.96369	8460.1671
13/16	1.96293	8430.4916	1.96332	8445.8015	1.96371	8461.1252
7/8	1.96295	8431.4480	1.96335	8446.7588	1.96374	8462.0834
15/16	1.96298	8432.4045	1.96337	8447.7162	1.96376	8463.0417

Fraction of an Inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96379	8464.0000	1.96418	8479.3403	1.96457	8494.6944
1/16	1.96381	8464.9584	1.96421	8480.2995	1.96460	8495.6545
1/8	1.96384	8465.9168	1.96423	8481.2588	1.96462	8496.6147
3/16	1.96386	8466.8752	1.96425	8482.2181	1.96465	8497.5749
1/4	1.96389	8467.8338	1.96428	8483.1775	1.96467	8498.5352
5/16	1.96391	8468.7923	1.96430	8484.1370	1.96470	8499.4955
3/8	1.96394	8469.7510	1.96433	8485.0965	1.96472	8500.4558
7/16	1.96396	8470.7097	1.96435	8486.0560	1.96475	8501.4163
1/2	1.96398	8471.6684	1.96438	8487.0156	1.96477	8502.3767
9/16	1.96401	8472.6272	1.96440	8487.9753	1.96479	8503.3373
5/8	1.96403	8473.5860	1.96443	8488.9350	1.96482	8504.2979
11/16	1.96406	8474.5449	1.96445	8489.8948	1.96484	8505.2585
3/4	1.96408	8475.5039	1.96448	8490.8546	1.96487	8506.2192
13/16	1.96411	8476.4629	1.96450	8491.8145	1.96489	8507.1799
7/8	1.96413	8477.4220	1.96452	8492.7744	1.96492	8508.1407
15/16	1.96416	8478.3811	1.96455	8493.7344	1.96494	8509.1016

Fraction of an Inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96497	8510.0625	1.96536	8525.4444	1.96575	8540.8403
1/16	1.96499	8511.0235	1.96538	8526.4063	1.96577	8541.8030
1/8	1.96502	8511.9845	1.96541	8527.3682	1.96580	8542.7657
3/16	1.96504	8512.9456	1.96543	8528.3301	1.96582	8543.7285
1/4	1.96506	8513.9067	1.96546	8529.2921	1.96585	8544.6914
5/16	1.96509	8514.8679	1.96548	8530.2542	1.96587	8545.6543
3/8	1.96511	8515.8291	1.96551	8531.2163	1.96590	8546.6173
7/16	1.96514	8516.7904	1.96553	8532.1784	1.96592	8547.5803
1/2	1.96516	8517.7517	1.96555	8533.1406	1.96595	8548.5434
9/16	1.96519	8518.7131	1.96558	8534.1029	1.96597	8549.5065
5/8	1.96521	8519.6746	1.96560	8535.0652	1.96599	8550.4697
11/16	1.96524	8520.6361	1.96563	8536.0276	1.96602	8551.4330
3/4	1.96526	8521.5977	1.96565	8536.9900	1.96604	8552.3963
13/16	1.96529	8522.5593	1.96568	8537.9525	1.96607	8553.3596
7/8	1.96531	8523.5209	1.96570	8538.9150	1.96609	8554.3230
15/16	1.96533	8524.4827	1.96573	8539.8776	1.96612	8555.2865

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96614	8556.2500	1.96653	8571.6736	1.96692	8587.1111
1/16	1.96617	8557.2136	1.96656	8572.6380	1.96695	8588.0764
1/8	1.96619	8558.1772	1.96658	8573.6025	1.96697	8589.0418
3/16	1.96622	8559.1409	1.96661	8574.5671	1.96700	8590.0072
1/4	1.96624	8560.1046	1.96663	8575.5317	1.96702	8590.9727
5/16	1.96626	8561.0684	1.96665	8576.4963	1.96705	8591.9382
3/8	1.96629	8562.0322	1.96668	8577.4610	1.96707	8592.9038
7/16	1.96631	8562.9961	1.96670	8578.4258	1.96709	8593.8694
1/2	1.96634	8563.9601	1.96673	8579.3906	1.96712	8594.8351
9/16	1.96636	8564.9241	1.96675	8580.3555	1.96714	8595.8008
5/8	1.96639	8565.8881	1.96678	8581.3204	1.96717	8596.7666
11/16	1.96641	8566.8522	1.96680	8582.2854	1.96719	8597.7324
3/4	1.96644	8567.8164	1.96683	8583.2504	1.96722	8598.6984
13/16	1.96646	8568.7806	1.96685	8584.2155	1.96724	8599.6643
7/8	1.96648	8569.7449	1.96687	8585.1807	1.96727	8600.6303
15/16	1.96651	8570.7092	1.96690	8586.1459	1.96729	8601.5964

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96731	8602.5625	1.96770	8618.0278	1.96809	8633.5069
1/16	1.96734	8603.5287	1.96773	8618.9948	1.96812	8634.4749
1/8	1.96736	8604.4949	1.96775	8619.9619	1.96814	8635.4428
3/16	1.96739	8605.4612	1.96778	8620.9291	1.96817	8636.4108
1/4	1.96741	8606.4275	1.96780	8621.8963	1.96819	8637.3789
5/16	1.96744	8607.3939	1.96783	8622.8635	1.96822	8638.3470
3/8	1.96746	8608.3604	1.96785	8623.8308	1.96824	8639.3152
7/16	1.96748	8609.3269	1.96787	8624.7982	1.96826	8640.2834
1/2	1.96751	8610.2934	1.96790	8625.7656	1.96829	8641.2517
9/16	1.96753	8611.2600	1.96792	8626.7331	1.96831	8642.2201
5/8	1.96756	8612.2267	1.96795	8627.7006	1.96834	8643.1885
11/16	1.96758	8613.1934	1.96797	8628.6682	1.96836	8644.1569
3/4	1.96761	8614.1602	1.96800	8629.6359	1.96839	8645.1254
13/16	1.96763	8615.1270	1.96802	8630.6035	1.96841	8646.0940
7/8	1.96766	8616.0939	1.96804	8631.5713	1.96843	8647.0626
15/16	1.96768	8617.0608	1.96807	8632.5391	1.96846	8648.0313

Fraction of an inch	0'		1"		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96848	8649.0000	1.96887	8664.5069	1.96926	8680.0278
1/16	1.96851	8649.9688	1.96890	8665.4766	1.96928	8680.9983
1/8	1.96853	8650.9376	1.96892	8666.4463	1.96931	8681.9689
3/16	1.96856	8651.9065	1.96894	8667.4160	1.96933	8682.9395
1/4	1.96858	8652.8754	1.96897	8668.3859	1.96936	8683.9102
5/16	1.96860	8653.8444	1.96899	8669.3557	1.96938	8684.8809
3/8	1.96863	8654.8135	1.96902	8670.3256	1.96941	8685.8517
7/16	1.96865	8655.7826	1.96904	8671.2956	1.96943	8686.8225
1/2	1.96868	8656.7517	1.96907	8672.2656	1.96945	8687.7934
9/16	1.96870	8657.7209	1.96909	8673.2357	1.96948	8688.7644
5/8	1.96873	8658.6902	1.96911	8674.2058	1.96950	8689.7354
11/16	1.96875	8659.6595	1.96914	8675.1760	1.96953	8690.7064
3/4	1.96877	8660.6289	1.96916	8676.1463	1.96955	8691.6775
13/16	1.96880	8661.5983	1.96919	8677.1166	1.96958	8692.6487
7/8	1.96882	8662.5678	1.96921	8678.0869	1.96960	8693.6199
15/16	1.96885	8663.5374	1.96924	8679.0573	1.96962	8694.5912

Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.96964	8695.5625	1.97004	8711.1111	1.97042	8726.6736
1/16	1.96967	8696.5339	1.97006	8712.0834	1.97045	8727.6467
1/8	1.96970	8697.5053	1.97009	8713.0557	1.97047	8728.6199
3/16	1.96972	8698.4768	1.97011	8714.0280	1.97050	8729.5931
1/4	1.96975	8699.4484	1.97013	8715.0004	1.97052	8730.5664
5/16	1.96977	8700.4199	1.97016	8715.9729	1.97055	8731.5397
3/8	1.96979	8701.3916	1.97018	8716.9454	1.97057	8732.5131
7/16	1.96982	8702.3633	1.97021	8717.9180	1.97059	8733.4866
1/2	1.96984	8703.3351	1.97023	8718.8906	1.97062	8734.4601
9/16	1.96987	8704.3069	1.97025	8719.8633	1.97064	8735.4336
5/8	1.96989	8705.2788	1.97028	8720.8360	1.97067	8736.4072
11/16	1.96992	8706.2507	1.97030	8721.8088	1.97069	8737.3809
3/4	1.96994	8707.2227	1.97033	8722.7817	1.97071	8738.3546
13/16	1.96996	8708.1947	1.97035	8723.7546	1.97074	8739.3284
7/8	1.96999	8709.1668	1.97038	8724.7275	1.97076	8740.3022
15/16	1.97001	8710.1389	1.97040	8725.7005	1.97079	8741.2761

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97081	8742.2500	1.97120	8757.8403	1.97159	8773.4444
$\frac{1}{16}$	1.97084	8743.2240	1.97122	8758.8151	1.97161	8774.4202
$\frac{1}{8}$	1.97086	8744.1980	1.97125	8759.7900	1.97163	8775.3959
$\frac{3}{16}$	1.97088	8745.1721	1.97127	8760.7650	1.97166	8776.3718
$\frac{1}{4}$	1.97091	8746.1463	1.97130	8761.7400	1.97168	8777.3477
$\frac{5}{16}$	1.97093	8747.1205	1.97132	8762.7151	1.97171	8778.3236
$\frac{3}{8}$	1.97096	8748.0947	1.97134	8763.6902	1.97173	8779.2996
$\frac{7}{16}$	1.97098	8749.0690	1.97137	8764.6654	1.97175	8780.2756
$\frac{1}{2}$	1.97101	8750.0434	1.97139	8765.6406	1.97178	8781.2517
$\frac{9}{16}$	1.97103	8751.0178	1.97142	8766.6159	1.97180	8782.2279
$\frac{5}{8}$	1.97105	8751.9923	1.97144	8767.5913	1.97183	8783.2041
$\frac{11}{16}$	1.97108	8752.9668	1.97146	8768.5667	1.97185	8784.1804
$\frac{3}{4}$	1.97110	8753.9414	1.97149	8769.5421	1.97187	8785.1567
$\frac{13}{16}$	1.97113	8754.9160	1.97151	8770.5176	1.97190	8786.1331
$\frac{7}{8}$	1.97115	8755.8907	1.97154	8771.4932	1.97192	8787.1095
$\frac{15}{16}$	1.97117	8756.8655	1.97156	8772.4688	1.97195	8788.0860

Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97197	8789.0625	1.97236	8804.6944	1.97274	8820.3403
$\frac{1}{16}$	1.97200	8790.0391	1.97238	8805.6719	1.97277	8821.3186
$\frac{1}{8}$	1.97202	8791.0157	1.97241	8806.6494	1.97279	8822.2970
$\frac{3}{16}$	1.97204	8791.9924	1.97243	8807.6270	1.97281	8823.2754
$\frac{1}{4}$	1.97207	8792.9692	1.97245	8808.6046	1.97284	8824.2539
$\frac{5}{16}$	1.97209	8793.9460	1.97248	8809.5823	1.97286	8825.2324
$\frac{3}{8}$	1.97212	8794.9229	1.97250	8810.5600	1.97289	8826.2110
$\frac{7}{16}$	1.97214	8795.8998	1.97253	8811.5378	1.97291	8827.1897
$\frac{1}{2}$	1.97216	8796.8767	1.97255	8812.5156	1.97294	8828.1684
$\frac{9}{16}$	1.97219	8797.8538	1.97257	8813.4935	1.97296	8829.1472
$\frac{5}{8}$	1.97221	8798.8308	1.97260	8814.4715	1.97298	8830.1260
$\frac{11}{16}$	1.97224	8799.8080	1.97262	8815.4495	1.97301	8831.1048
$\frac{3}{4}$	1.97226	8800.7852	1.97265	8816.4275	1.97303	8832.0838
$\frac{13}{16}$	1.97228	8801.7624	1.97267	8817.4056	1.97306	8833.0627
$\frac{7}{8}$	1.97231	8802.7397	1.97269	8818.3838	1.97308	8834.0418
$\frac{15}{16}$	1.97233	8803.7170	1.97272	8819.3620	1.97310	8835.0209

94'

Fraction of an inch	0'		1"		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97313	8836.0000	1.97351	8851.6736	1.97390	8867.3611
1/16	1.97315	8836.9792	1.97354	8852.6537	1.97392	8868.3420
1/8	1.97318	8837.9584	1.97356	8853.6338	1.97395	8869.3230
3/16	1.97320	8838.9377	1.97358	8854.6140	1.97397	8870.3041
1/4	1.97322	8839.9171	1.97361	8855.5942	1.97399	8871.2852
5/16	1.97325	8840.8965	1.97363	8856.5745	1.97402	8872.2663
3/8	1.97327	8841.8760	1.97366	8857.5548	1.97404	8873.2475
7/16	1.97330	8842.8555	1.97368	8858.5352	1.97407	8874.2288
1/2	1.97332	8843.8351	1.97370	8859.5156	1.97409	8875.2101
9/16	1.97334	8844.8147	1.97373	8860.4961	1.97411	8876.1914
5/8	1.97337	8845.7944	1.97375	8861.4767	1.97414	8877.1729
11/16	1.97339	8846.7741	1.97378	8862.4573	1.97416	8878.1543
3/4	1.97342	8847.7539	1.97380	8863.4379	1.97419	8879.1359
13/16	1.97344	8848.7338	1.97383	8864.4186	1.97421	8880.1174
7/8	1.97346	8849.7137	1.97385	8865.3994	1.97423	8881.0991
15/16	1.97349	8850.6936	1.97387	8866.3802	1.97426	8882.0808

Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97428	8883.0625	1.97467	8898.7778	1.97505	8914.5069
1/16	1.97431	8884.0443	1.97469	8899.7604	1.97507	8915.4905
1/8	1.97433	8885.0262	1.97471	8900.7432	1.97510	8916.4741
3/16	1.97435	8886.0081	1.97474	8901.7259	1.97512	8917.4577
1/4	1.97438	8886.9900	1.97476	8902.7088	1.97514	8918.4414
5/16	1.97440	8887.9720	1.97479	8903.6917	1.97517	8919.4252
3/8	1.97443	8888.9541	1.97481	8904.6746	1.97519	8920.4090
7/16	1.97445	8889.9362	1.97483	8905.6576	1.97522	8921.3928
1/2	1.97447	8890.9184	1.97486	8906.6406	1.97524	8922.3767
9/16	1.97450	8891.9006	1.97488	8907.6237	1.97526	8923.3607
5/8	1.97452	8892.8829	1.97490	8908.6069	1.97529	8924.3447
11/16	1.97455	8893.8653	1.97493	8909.5901	1.97531	8925.3288
3/4	1.97457	8894.8477	1.97495	8910.5734	1.97534	8926.3129
13/16	1.97459	8895.8301	1.97498	8911.5567	1.97536	8927.2971
7/8	1.97462	8896.8126	1.97500	8912.5400	1.97538	8928.2814
15/16	1.97464	8897.7952	1.97502	8913.5235	1.97541	8929.2657

94'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97543	8930.2500	1.97581	8946.0069	1.97620	8961.7778
1/16	1.97546	8931.2344	1.97584	8946.9922	1.97622	8962.7639
1/8	1.97548	8932.2189	1.97586	8947.9775	1.97624	8963.7501
3/16	1.97550	8933.2034	1.97589	8948.9629	1.97627	8964.7364
1/4	1.97553	8934.1879	1.97591	8949.9484	1.97629	8965.7227
5/16	1.97555	8935.1726	1.97593	8950.9338	1.97632	8966.7090
3/8	1.97558	8936.1572	1.97596	8951.9194	1.97634	8967.6954
7/16	1.97560	8937.1420	1.97598	8952.9050	1.97636	8968.6819
1/2	1.97562	8938.1267	1.97601	8953.8906	1.97639	8969.6684
9/16	1.97565	8939.1116	1.97603	8954.8763	1.97641	8970.6550
5/8	1.97567	8940.0965	1.97605	8955.8621	1.97644	8971.6416
11/16	1.97570	8941.0814	1.97608	8956.8479	1.97646	8972.6283
3/4	1.97572	8942.0664	1.97610	8957.8338	1.97648	8973.6150
13/16	1.97574	8943.0515	1.97613	8958.8197	1.97651	8974.6018
7/8	1.97577	8944.0366	1.97615	8959.8057	1.97653	8975.5887
15/16	1.97579	8945.0217	1.97617	8960.7917	1.97656	8976.5755

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97658	8977.5625	1.97696	8993.3611	1.97734	9009.1736
1/16	1.97660	8978.5495	1.97698	8994.3490	1.97737	9010.1624
1/8	1.97663	8979.5366	1.97701	8995.3369	1.97739	9011.1512
3/16	1.97665	8980.5237	1.97703	8996.3249	1.97741	9012.1400
1/4	1.97667	8981.5109	1.97706	8997.3129	1.97744	9013.1289
5/16	1.97670	8982.4981	1.97708	8998.3010	1.97746	9014.1179
3/8	1.97672	8983.4854	1.97710	8999.2892	1.97749	9015.1069
7/16	1.97675	8984.4727	1.97713	9000.2774	1.97751	9016.0959
1/2	1.97677	8985.4601	1.97715	9001.2656	1.97753	9017.0851
9/16	1.97679	8986.4475	1.97718	9002.2539	1.97756	9018.0742
5/8	1.97682	8987.4350	1.97720	9003.2423	1.97758	9019.0635
11/16	1.97684	8988.4226	1.97722	9004.2307	1.97760	9020.0528
3/4	1.97687	8989.4102	1.97725	9005.2192	1.97763	9021.0421
13/16	1.97689	8990.3978	1.97727	9006.2077	1.97765	9022.0315
7/8	1.97691	8991.3855	1.97729	9007.1963	1.97768	9023.0209
15/16	1.97694	8992.3733	1.97732	9008.1849	1.97770	9024.0104

95'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97772	9025.0000	1.97810	9040.8403	1.97848	9056.6944
1/16	1.97775	9025.9896	1.97813	9041.8308	1.97851	9057.6858
1/8	1.97777	9026.9793	1.97815	9042.8213	1.97853	9058.6772
3/16	1.97780	9027.9690	1.97818	9043.8119	1.97856	9059.6686
1/4	1.97782	9028.9588	1.97820	9044.8025	1.97858	9060.6602
5/16	1.97784	9029.9486	1.97822	9045.7932	1.97860	9061.6517
3/8	1.97787	9030.9385	1.97825	9046.7840	1.97863	9062.6433
7/16	1.97789	9031.9384	1.97827	9047.7748	1.97865	9063.6350
1/2	1.97791	9032.9184	1.97829	9048.7656	1.97867	9064.6267
9/16	1.97794	9033.9084	1.97832	9049.7565	1.97870	9065.6185
5/8	1.97796	9034.8985	1.97834	9050.7475	1.97872	9066.6104
11/16	1.97799	9035.8887	1.97837	9051.7385	1.97875	9067.6022
3/4	1.97801	9036.8789	1.97839	9052.7296	1.97877	9068.5942
13/16	1.97803	9037.8692	1.97841	9053.7207	1.97879	9069.5862
7/8	1.97806	9028.8595	1.97844	9054.7119	1.97882	9070.5782
15/16	1.97808	9039.8499	1.97846	9055.7032	1.97884	9071.5703

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.97886	9072.5625	1.97924	9088.4444	1.97962	9104.3403
1/16	1.97889	9073.5547	1.97927	9089.4375	1.97965	9105.3342
1/8	1.97891	9074.5470	1.97929	9090.4307	1.97967	9106.3282
3/16	1.97894	9075.5393	1.97932	9091.4239	1.97970	9107.3223
1/4	1.97896	9076.5317	1.97934	9092.4171	1.97972	9108.3164
5/16	1.97898	9077.5241	1.97936	9093.4104	1.97974	9109.3106
3/8	1.97901	9078.5166	1.97939	9094.4038	1.97977	9110.3048
7/16	1.97903	9079.5091	1.97941	9095.3972	1.97979	9111.2991
1/2	1.97905	9080.5017	1.97943	9096.3906	1.97981	9112.2934
9/16	1.97908	9081.4944	1.97946	9097.3841	1.97984	9113.2878
5/8	1.97910	9082.4871	1.97948	9098.3777	1.97986	9114.2822
11/16	1.97913	9083.4798	1.97951	9099.3713	1.97988	9115.2767
3/4	1.97915	9084.4727	1.97953	9100.3650	1.97991	9116.2713
13/16	1.97917	9085.4655	1.97955	9101.3588	1.97993	9117.2659
7/8	1.97920	9086.4584	1.97958	9102.3525	1.97996	9118.2605
15/16	1.97922	9087.4514	1.97960	9103.3464	1.97998	9119.2552

95'

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98000	9120.2500	1.98038	9136.1736	1.98076	9152.1111
1/16	1.98003	9121.2448	1.98041	9137.1693	1.98078	9153.1077
1/8	1.98005	9122.2397	1.98043	9138.1650	1.98081	9154.1043
3/16	1.98007	9123.2346	1.98045	9139.1608	1.98083	9155.1009
1/4	1.98010	9124.2296	1.98048	9140.1567	1.98086	9156.0977
5/16	1.98012	9125.2246	1.98050	9141.1526	1.98088	9157.0944
3/8	1.98015	9126.2197	1.98052	9142.1485	1.98090	9158.0913
7/16	1.98017	9127.2149	1.98055	9143.1446	1.98093	9159.0881
1/2	1.98019	9128.2101	1.98057	9144.1406	1.98095	9160.0851
9/16	1.98022	9129.2053	1.98060	9145.1367	1.98097	9161.0821
5/8	1.98024	9130.2006	1.98062	9146.1329	1.98100	9162.0791
11/16	1.98026	9131.1960	1.98064	9147.1292	1.98102	9163.0762
3/4	1.98029	9132.1914	1.98067	9148.1254	1.98104	9164.0734
13/16	1.98031	9133.1869	1.98069	9149.1218	1.98107	9165.0706
7/8	1.98033	9134.1824	1.98071	9150.1182	1.98109	9166.0678
15/16	1.98036	9135.1780	1.98074	9151.1146	1.98112	9167.0651
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98114	9168.0625	1.98152	9184.0278	1.98189	9200.0069
1/16	1.98116	9169.0599	1.98154	9185.0261	1.98192	9201.0061
1/8	1.98119	9170.0574	1.98156	9186.0244	1.98194	9202.0053
3/16	1.98121	9171.0549	1.98159	9187.0228	1.98196	9203.0046
1/4	1.98123	9172.0525	1.98161	9188.0213	1.98199	9204.0039
5/16	1.98126	9173.0502	1.98163	9189.0198	1.98201	9205.0033
3/8	1.98128	9174.0479	1.98166	9190.0183	1.98204	9206.0027
7/16	1.98130	9175.0456	1.98168	9191.0170	1.98206	9207.0022
1/2	1.98133	9176.0434	1.98171	9192.0156	1.98208	9208.0017
9/16	1.98135	9177.0413	1.98173	9193.0144	1.98211	9209.0013
5/8	1.98137	9178.0392	1.98175	9194.0131	1.98213	9210.0010
11/16	1.98140	9179.0371	1.98178	9195.0120	1.98215	9211.0007
3/4	1.98142	9180.0352	1.98180	9196.0109	1.98218	9212.0004
13/16	1.98145	9181.0332	1.98182	9197.0098	1.98220	9213.0002
7/8	1.98147	9182.0314	1.98185	9198.0088	1.98222	9214.0001
15/16	1.98149	9183.0295	1.98187	9199.0078	1.98225	9215.0000

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98227	9216.0000	1.98265	9232.0069	1.98302	9248.0278
1/16	1.98229	9217.0000	1.98267	9233.0078	1.98305	9249.0295
1/8	1.98232	9218.0001	1.98270	9234.0088	1.98307	9250.0314
3/16	1.98234	9219.0002	1.98272	9235.0098	1.98310	9251.0332
1/4	1.98237	9220.0004	1.98274	9236.0109	1.98312	9252.0352
5/16	1.98239	9221.0007	1.98277	9237.0120	1.98314	9253.0371
3/8	1.98241	9222.0010	1.98279	9238.0131	1.98317	9254.0392
7/16	1.98244	9223.0013	1.98281	9239.0144	1.98319	9255.0413
1/2	1.98246	9224.0017	1.98284	9240.0156	1.98321	9256.0434
9/16	1.98248	9225.0022	1.98286	9241.0170	1.98324	9257.0456
5/8	1.98251	9226.0027	1.98288	9242.0183	1.98326	9258.0479
11/16	1.98253	9227.0033	1.98291	9243.0198	1.98328	9259.0502
3/4	1.98255	9228.0039	1.98293	9244.0213	1.98331	9260.0525
13/16	1.98258	9229.0046	1.98295	9245.0228	1.98333	9261.0549
7/8	1.98260	9230.0053	1.98298	9246.0244	1.98335	9262.0574
15/16	1.98262	9231.0061	1.98300	9247.0261	1.98338	9263.0599
Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98340	9264.0625	1.98378	9280.1111	1.98415	9296.1736
1/16	1.98342	9265.0651	1.98380	9281.1146	1.98418	9297.1780
1/8	1.98345	9266.0678	1.98382	9282.1182	1.98420	9298.1824
3/16	1.98347	9267.0706	1.98385	9283.1218	1.98422	9299.1869
1/4	1.98349	9268.0734	1.98387	9284.1254	1.98425	9300.1914
5/16	1.98352	9269.0762	1.98389	9285.1292	1.98427	9301.1960
3/8	1.98354	9270.0791	1.98392	9286.1329	1.98429	9302.2006
7/16	1.98357	9271.0821	1.98394	9287.1367	1.98432	9303.2053
1/2	1.98359	9272.0851	1.98396	9288.1406	1.98434	9304.2101
9/16	1.98361	9273.0881	1.98399	9289.1446	1.98436	9305.2149
5/8	1.98364	9274.0913	1.98401	9290.1485	1.98439	9306.2197
11/16	1.98366	9275.0944	1.98403	9291.1526	1.98441	9307.2246
3/4	1.98368	9276.0977	1.98406	9292.1567	1.98443	9308.2296
13/16	1.98371	9277.1009	1.98408	9293.1608	1.98446	9309.2346
7/8	1.98373	9278.1043	1.98411	9294.1650	1.98448	9310.2397
15/16	1.98375	9279.1077	1.98413	9295.1693	1.98450	9311.2448

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98453	9312.2500	1.98490	9328.3403	1.98528	9344.4444
1/16	1.98455	9313.2552	1.98493	9329.3464	1.98530	9345.4514
1/8	1.98457	9314.2605	1.98495	9330.3525	1.98532	9346.4584
3/16	1.98460	9315.2659	1.98497	9331.3588	1.98535	9347.4655
1/4	1.98462	9316.2713	1.98500	9332.3650	1.98537	9348.4727
5/16	1.98464	9317.2767	1.98502	9333.3713	1.98539	9349.4798
3/8	1.98467	9318.2822	1.98504	9334.3777	1.98542	9350.4871
7/16	1.98469	9319.2878	1.98507	9335.3841	1.98544	9351.4944
1/2	1.98471	9320.2934	1.98509	9336.3906	1.98546	9352.5017
9/16	1.98474	9321.2991	1.98511	9337.3972	1.98549	9353.5091
5/8	1.98476	9322.3048	1.98514	9338.4038	1.98551	9354.5166
11/16	1.98479	9323.3106	1.98516	9339.4104	1.98553	9355.5241
3/4	1.98481	9324.3164	1.98518	9340.4171	1.98556	9356.5317
13/16	1.98483	9325.3223	1.98521	9341.4239	1.98558	9357.5393
7/8	1.98486	9326.3282	1.98523	9342.4307	1.98560	9358.5470
15/16	1.98488	9327.3342	1.98525	9343.4375	1.98563	9359.5547

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98565	9360.5625	1.98602	9376.6944	1.98640	9392.8403
1/16	1.98567	9361.5703	1.98605	9377.7032	1.98642	9393.8499
1/8	1.98570	9362.5782	1.98607	9378.7119	1.98645	9394.8595
3/16	1.98572	9363.5862	1.98609	9379.7207	1.98647	9395.8692
1/4	1.98574	9364.5942	1.98612	9380.7296	1.98649	9396.8789
5/16	1.98577	9365.6022	1.98614	9381.7385	1.98652	9397.8887
3/8	1.98579	9366.6104	1.98617	9382.7475	1.98654	9398.8985
7/16	1.98581	9367.6185	1.98619	9383.7565	1.98656	9399.9084
1/2	1.98584	9368.6267	1.98621	9384.7656	1.98659	9400.9184
9/16	1.98586	9369.6350	1.98624	9385.7748	1.98661	9401.9284
5/8	1.98588	9370.6433	1.98626	9386.7840	1.98663	9402.9385
11/16	1.98591	9371.6517	1.98628	9387.7932	1.98666	9403.9486
3/4	1.98593	9372.6602	1.98631	9388.8025	1.98668	9404.9588
13/16	1.98595	9373.6686	1.98633	9389.8119	1.98670	9405.9690
7/8	1.98598	9374.6772	1.98635	9390.8213	1.98673	9406.9793
15/16	1.98600	9375.6858	1.98638	9391.8308	1.98675	9407.9896

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98677	9409.0000	1.98714	9425.1736	1.98752	9441.3611
1/16	1.98680	9410.0104	1.98717	9426.1849	1.98754	9442.3733
1/8	1.98682	9411.0209	1.98719	9427.1963	1.98756	9443.3855
3/16	1.98684	9412.0315	1.98721	9428.2077	1.98759	9444.3978
1/4	1.98687	9413.0421	1.98724	9429.2192	1.98761	9445.4102
5/16	1.98689	9414.0528	1.98726	9430.2307	1.98763	9446.4226
3/8	1.98691	9415.0635	1.98728	9431.2423	1.98766	9447.4350
7/16	1.98693	9416.0742	1.98731	9432.2539	1.98768	9448.4475
1/2	1.98696	9417.0851	1.98733	9433.2656	1.98770	9449.4601
9/16	1.98698	9418.0959	1.98735	9434.2774	1.98773	9450.4727
5/8	1.98700	9419.1069	1.98738	9435.2892	1.98775	9451.4854
11/16	1.98703	9420.1179	1.98740	9436.3010	1.98777	9452.4981
3/4	1.98705	9421.1289	1.98742	9437.3129	1.98780	9453.5109
13/16	1.98707	9422.1400	1.98745	9438.3249	1.98782	9454.5237
7/8	1.98710	9423.1512	1.98747	9439.3369	1.98784	9455.5366
15/16	1.98712	9424.1624	1.98749	9440.3490	1.98787	9456.5495

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98789	9457.5625	1.98826	9473.7778	1.98863	9490.0069
1/16	1.98791	9458.5755	1.98828	9474.7917	1.98866	9491.0217
1/8	1.98794	9459.5887	1.98831	9475.8057	1.98868	9492.0366
3/16	1.98796	9460.6018	1.98833	9476.8197	1.98870	9493.0515
1/4	1.98798	9461.6150	1.98835	9477.8338	1.98873	9494.0664
5/16	1.98801	9462.6283	1.98838	9478.8479	1.98875	9495.0814
3/8	1.98803	9463.6416	1.98840	9479.8621	1.98877	9496.0965
7/16	1.98805	9464.6550	1.98842	9480.8763	1.98880	9497.1116
1/2	1.98808	9465.6684	1.98845	9481.8906	1.98882	9498.1267
9/16	1.98810	9466.6819	1.98847	9482.9050	1.98884	9499.1420
5/8	1.98812	9467.6954	1.98849	9483.9194	1.98887	9500.1572
11/16	1.98815	9468.7090	1.98852	9484.9338	1.98889	9501.1726
3/4	1.98817	9469.7227	1.98854	9485.9484	1.98891	9502.1879
13/16	1.98819	9470.7364	1.98856	9486.9629	1.98894	9503.2034
7/8	1.98822	9471.7501	1.98859	9487.9775	1.98896	9504.2189
15/16	1.98824	9472.7639	1.98861	9488.9922	1.98898	9505.2344

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.98900	9506.2500	1.98938	9522.5069	1.98975	9538.7778
1/16	1.98903	9507.2657	1.98940	9523.5235	1.98977	9539.7952
1/8	1.98905	9508.2814	1.98942	9524.5406	1.98979	9540.8126
3/16	1.98907	9509.2971	1.98945	9525.5567	1.98982	9541.8301
1/4	1.98910	9510.3129	1.98947	9526.5734	1.98984	9542.8477
5/16	1.98912	9511.3288	1.98949	9527.5901	1.98986	9543.8653
3/8	1.98914	9512.3447	1.98951	9528.6069	1.98989	9544.8829
7/16	1.98917	9513.3607	1.98954	9529.6237	1.98991	9545.9006
1/2	1.98919	9514.3767	1.98956	9530.6406	1.98993	9546.9184
9/16	1.98921	9515.3928	1.98958	9531.6576	1.98995	9547.9362
5/8	1.98924	9516.4090	1.98961	9532.6746	1.98998	9548.9541
11/16	1.98926	9517.4252	1.98963	9533.6917	1.99000	9549.9720
3/4	1.98928	9518.4414	1.98965	9534.7088	1.99002	9550.9900
13/16	1.98931	9519.4577	1.98968	9535.7259	1.99005	9552.0081
7/8	1.98933	9520.4741	1.98970	9536.7432	1.99007	9553.0262
15/16	1.98935	9521.4905	1.98972	9537.7604	1.99009	9554.0443

Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99012	9555.0625	1.99049	9571.3611	1.99086	9587.6736
1/16	1.99014	9556.0808	1.99051	9572.3802	1.99088	9588.6936
1/8	1.99016	9557.0991	1.99053	9573.3994	1.99090	9589.7137
3/16	1.99019	9558.1174	1.99056	9574.4186	1.99093	9590.7338
1/4	1.99021	9559.1359	1.99058	9575.4379	1.99095	9591.7539
5/16	1.99023	9560.1543	1.99060	9576.4573	1.99097	9592.7741
3/8	1.99026	9561.1729	1.99063	9577.4767	1.99100	9593.7944
7/16	1.99028	9562.1914	1.99065	9578.4961	1.99102	9594.8147
1/2	1.99030	9563.2101	1.99067	9579.5156	1.99104	9595.8351
9/16	1.99032	9564.2288	1.99069	9580.5352	1.99106	9596.8555
5/8	1.99035	9565.2475	1.99072	9581.5548	1.99109	9597.8760
11/16	1.99037	9566.2663	1.99074	9582.5745	1.99111	9598.8965
3/4	1.99039	9567.2852	1.99076	9583.5942	1.99113	9599.9171
13/16	1.99042	9568.3041	1.99079	9584.6140	1.99116	9600.9377
7/8	1.99044	9569.3230	1.99081	9585.6338	1.99118	9601.9584
15/16	1.99046	9570.3420	1.99083	9586.6537	1.99120	9602.9792

98'

Fraction of an inch	0"		1"		2"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99123	9604.0000	1.99160	9620.3403	1.99196	9636.6944
1/16	1.99125	9605.0209	1.99162	9621.3620	1.99199	9637.7170
1/8	1.99127	9606.0418	1.99164	9622.3838	1.99201	9638.7397
3/16	1.99130	9607.0627	1.99166	9623.4056	1.99203	9639.7624
1/4	1.99132	9608.0838	1.99169	9624.4275	1.99206	9640.7852
5/16	1.99134	9609.1048	1.99171	9625.4495	1.99208	9641.8080
3/8	1.99136	9610.1260	1.99173	9626.4715	1.99210	9642.8308
7/16	1.99139	9611.1472	1.99176	9627.4935	1.99213	9643.8538
1/2	1.99141	9612.1684	1.99178	9628.5156	1.99215	9644.8767
9/16	1.99143	9613.1897	1.99180	9629.5378	1.99217	9645.8998
5/8	1.99146	9614.2110	1.99183	9630.5600	1.99219	9646.9229
11/16	1.99148	9615.2324	1.99185	9631.5823	1.99222	9647.9460
3/4	1.99150	9616.2539	1.99187	9632.6046	1.99224	9648.9692
13/16	1.99153	9617.2754	1.99189	9633.6270	1.99226	9649.9924
7/8	1.99155	9618.2970	1.99192	9634.6494	1.99229	9651.0157
15/16	1.99157	9619.3186	1.99194	9635.6719	1.99231	9652.0391

Fraction of an inch	3"		4"		5"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99233	9653.0625	1.99270	9669.4444	1.99307	9685.8403
1/16	1.99236	9654.0860	1.99272	9670.4688	1.99309	9686.8655
1/8	1.99238	9655.1095	1.99275	9671.4932	1.99311	9687.8907
3/16	1.99240	9656.1331	1.99277	9672.5176	1.99314	9688.9160
1/4	1.99242	9657.1567	1.99279	9673.5421	1.99316	9689.9414
5/16	1.99245	9658.1804	1.99282	9674.5667	1.99318	9690.9668
3/8	1.99247	9659.2041	1.99284	9675.5913	1.99321	9691.9923
7/16	1.99249	9660.2279	1.99286	9676.6159	1.99323	9693.0178
1/2	1.99252	9661.2517	1.99288	9677.6406	1.99325	9694.0434
9/16	1.99254	9662.2756	1.99291	9678.6654	1.99328	9695.0690
5/8	1.99256	9663.2996	1.99293	9679.6902	1.99330	9696.0947
11/16	1.99259	9664.3236	1.99295	9680.7151	1.99332	9697.1205
3/4	1.99261	9665.3477	1.99298	9681.7400	1.99334	9698.1463
13/16	1.99263	9666.3718	1.99300	9682.7650	1.99337	9699.1721
7/8	1.99265	9667.3959	1.99302	9683.7900	1.99339	9700.1980
15/16	1.99268	9668.4202	1.99305	9684.8151	1.99341	9701.2240

Fraction of an inch	6"		7"		8"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99344	9702.2500	1.99380	9718.6736	1.99417	9735.1111
1/16	1.99346	9703.2761	1.99383	9719.7005	1.99419	9736.1389
1/8	1.99348	9704.3022	1.99385	9720.7275	1.99422	9737.1668
3/16	1.99351	9705.3284	1.99387	9721.7546	1.99424	9738.1947
1/4	1.99353	9706.3546	1.99390	9722.7817	1.99426	9739.2227
5/16	1.99355	9707.3809	1.99392	9723.8088	1.99429	9740.2507
3/8	1.99357	9708.4072	1.99394	9724.8360	1.99431	9741.2788
7/16	1.99360	9709.4336	1.99396	9725.8633	1.99433	9742.3069
1/2	1.99362	9710.4601	1.99399	9726.8906	1.99435	9743.3351
9/16	1.99364	9711.4866	1.99401	9727.9180	1.99438	9744.3633
5/8	1.99367	9712.5131	1.99403	9728.9454	1.99440	9745.3916
11/16	1.99369	9713.5397	1.99406	9729.9729	1.99442	9746.4199
3/4	1.99371	9714.5664	1.99408	9731.0004	1.99445	9747.4484
13/16	1.99373	9715.5931	1.99410	9732.0280	1.99447	9748.4768
7/8	1.99376	9716.6199	1.99412	9733.0557	1.99449	9749.5053
15/16	1.99378	9717.6467	1.99415	9734.0834	1.99451	9750.5339
Fraction of an inch	9"		10"		11"	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99454	9751.5625	1.99490	9768.0278	1.99527	9784.5069
1/16	1.99456	9752.5912	1.99493	9769.0573	1.99529	9785.5374
1/8	1.99458	9753.6199	1.99495	9770.0869	1.99532	9786.5678
3/16	1.99461	9754.6457	1.99497	9771.1166	1.99534	9787.5983
1/4	1.99463	9755.6775	1.99499	9772.1463	1.99536	9788.6289
5/16	1.99465	9756.7064	1.99502	9773.1760	1.99538	9789.6595
3/8	1.99467	9757.7354	1.99504	9774.2058	1.99541	9790.6902
7/16	1.99470	9758.7644	1.99506	9775.2357	1.99543	9791.7209
1/2	1.99472	9759.7934	1.99509	9776.2656	1.99545	9792.7517
9/16	1.99474	9760.8225	1.99511	9777.2956	1.99548	9793.7826
5/8	1.99477	9761.8517	1.99513	9778.3256	1.99550	9794.8135
11/16	1.99479	9762.8809	1.99516	9779.3557	1.99552	9795.8444
3/4	1.99481	9763.9102	1.99518	9780.3859	1.99554	9796.8754
13/16	1.99483	9764.9395	1.99520	9781.4160	1.99557	9797.9065
7/8	1.99486	9765.9689	1.99522	9782.4463	1.99559	9798.9376
15/16	1.99488	9766.9983	1.99525	9783.4766	1.99561	9799.9688

Fraction of an inch	0'		1'		2'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99564	9801.0000	1.99600	9817.5069	1.99637	9834.0278
1/16	1.99566	9802.0313	1.99602	9818.5391	1.99639	9835.0608
1/8	1.99568	9803.0626	1.99605	9819.5713	1.99641	9836.0939
3/16	1.99570	9804.0940	1.99607	9820.6035	1.99643	9837.1270
1/4	1.99573	9805.1254	1.99609	9821.6359	1.99646	9838.1602
5/16	1.99575	9806.1569	1.99611	9822.6682	1.99648	9839.1934
3/8	1.99577	9807.1885	1.99614	9823.7006	1.99650	9840.2267
7/16	1.99580	9808.2201	1.99616	9824.7331	1.99653	9841.2600
1/2	1.99582	9809.2517	1.99618	9825.7656	1.99655	9842.2934
9/16	1.99584	9810.2834	1.99621	9826.7982	1.99657	9843.3269
5/8	1.99586	9811.3152	1.99623	9827.8308	1.99659	9844.3604
11/16	1.99589	9812.3470	1.99625	9828.8635	1.99662	9845.3939
3/4	1.99591	9813.3789	1.99627	9829.8963	1.99664	9846.4275
13/16	1.99593	9814.4108	1.99630	9830.9291	1.99666	9847.4612
7/8	1.99595	9815.4428	1.99632	9831.9619	1.99668	9848.4949
15/16	1.99598	9816.4749	1.99634	9832.9948	1.99671	9849.5287
Fraction of an inch	3'		4'		5'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99673	9850.5625	1.99710	9867.1111	1.99746	9883.6736
1/16	1.99675	9851.5964	1.99712	9868.1459	1.99748	9884.7092
1/8	1.99678	9852.6303	1.99714	9869.1807	1.99750	9885.7449
3/16	1.99680	9853.6643	1.99716	9870.2155	1.99753	9886.7806
1/4	1.99682	9854.6984	1.99719	9871.2504	1.99755	9887.8164
5/16	1.99684	9855.7324	1.99721	9872.2854	1.99757	9888.8522
3/8	1.99687	9856.7666	1.99723	9873.3204	1.99760	9889.8881
7/16	1.99689	9857.8008	1.99725	9874.3555	1.99762	9890.9241
1/2	1.99691	9858.8351	1.99728	9875.3906	1.99764	9891.9601
9/16	1.99694	9859.8694	1.99730	9876.4258	1.99766	9892.9961
5/8	1.99696	9860.9038	1.99732	9877.4610	1.99769	9894.0322
11/16	1.99698	9861.9382	1.99735	9878.4963	1.99771	9895.0684
3/4	1.99700	9862.9727	1.99737	9879.5317	1.99773	9896.1046
13/16	1.99703	9864.0072	1.99739	9880.5671	1.99775	9897.1409
7/8	1.99705	9865.0418	1.99741	9881.6025	1.99778	9898.1772
15/16	1.99707	9866.0764	1.99744	9882.6380	1.99780	9899.2136

Fraction of an inch	6'		7'		8'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99782	9900.2500	1.99819	9916.8403	1.99855	9933.4444
1/16	1.99785	9901.2865	1.99821	9917.8776	1.99857	9934.4827
1/8	1.99787	9902.3230	1.99823	9918.9150	1.99860	9935.5209
3/16	1.99789	9903.3596	1.99825	9919.9525	1.99862	9936.5593
1/4	1.99791	9904.3963	1.99828	9920.9900	1.99864	9937.5977
5/16	1.99794	9905.4330	1.99830	9922.0276	1.99866	9938.6361
3/8	1.99796	9906.4697	1.99832	9923.0652	1.99869	9939.6746
7/16	1.99798	9907.5065	1.99835	9924.1029	1.99871	9940.7131
1/2	1.99800	9908.5434	1.99837	9925.1406	1.99873	9941.7517
9/16	1.99803	990.95803	1.99839	9926.1784	1.99875	9942.7904
5/8	1.99805	9910.6173	1.99841	9927.2163	1.99878	9943.8291
11/16	1.99807	9911.6543	1.99844	9928.2542	1.99880	9944.8679
3/4	1.99810	9912.6914	1.99846	9929.2921	1.99882	9945.9067
13/16	1.99812	9913.7285	1.99848	9930.3301	1.99884	9946.9456
7/8	1.99814	9914.7657	1.99850	9931.3682	1.99887	9947.9845
15/16	1.99816	9915.8030	1.99853	9932.4063	1.99889	9949.0235

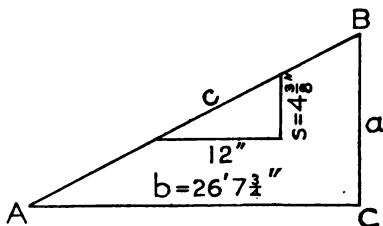
Fraction of an inch	9'		10'		11'	
	Log.	Square.	Log.	Square.	Log.	Square.
0	1.99891	9950.0625	1.99928	9966.6944	1.99964	9983.3403
1/16	1.99894	9951.1016	1.99930	9967.7344	1.99966	9984.3811
1/8	1.99896	9952.1407	1.99932	9968.7744	1.99968	9985.4220
3/16	1.99988	9953.1799	1.99934	9969.8145	1.99971	9986.4629
1/4	1.99900	9954.2192	1.99937	9970.8546	1.99973	9987.5039
5/16	1.99903	9955.2585	1.99939	9971.8948	1.99975	9988.5449
3/8	1.99905	9956.2979	1.99941	9972.9350	1.99977	9989.5860
7/16	1.99907	9957.3373	1.99943	9973.9753	1.99980	9990.6272
1/2	1.99909	9958.3767	1.99946	9975.0156	1.99982	9991.6684
9/16	1.99912	9959.4163	1.99948	9976.0560	1.99984	9992.7097
5/8	1.99914	9960.4558	1.99950	9977.0965	1.99986	9993.7510
11/16	1.99916	9961.4955	1.99952	9978.1370	1.99989	9994.7923
3/4	1.99918	9962.5352	1.99955	9979.1775	1.99991	9995.8338
13/16	1.99921	9963.5749	1.99957	9980.2181	1.99993	9996.8752
7/8	1.99923	9964.6147	1.99959	9981.2588	1.99995	9997.91618
15/16	1.99925	9965.6545	1.99962	9982.2995	1.99998	9998.9584



TABLES OF ANGLES AND LOGARITHMIC FUNCTIONS

Corresponding to bevels or slopes given to a base of 12 inches.

The following table bearing the above title gives the amount and log. functions of the angle whose natural tang. is the bevel given to 12". The bevels are given in the table by the big top figures, and fractions in the left column of the page, and opposite each fraction are placed the respective log. functions and the amount of the angle in degrees, minutes and seconds. The amount of the angle A, for instance, corresponding to the bevel of $4\frac{3}{8}"$ to 12", (see accompanying figure).



can be read on page 308 as $20^{\circ} 01' 52''$, and the Log. functions of that angle as Log Sine = 9.53470, Log Cosec. = 0.46530, etc.

If one of the sides of the right-angle triangle ABC and the slope of the hypotenuse are given, the other two sides can be figured by means of the well-known relations.

$$\begin{aligned} b &= c \cos A = a \cot A \\ c &= b \sec A = a \operatorname{cosec} A \\ a &= b \tan A = c \sin A \end{aligned}$$

hence $\operatorname{Log} b = \operatorname{Log} c + \operatorname{Log} \cos A = \operatorname{Log} a + \operatorname{Log} \cot A$

$\operatorname{Log} c = \operatorname{Log} b + \operatorname{Log} \sec A = \operatorname{Log} a + \operatorname{Log} \operatorname{cosec} A$

$\operatorname{Log} a = \operatorname{Log} b + \operatorname{Log} \tan A = \operatorname{Log} c + \operatorname{Log} \sin A$

Let, for example, $s = 4\frac{3}{8}"$ and $b = 26' 7\frac{1}{2}"$, then

$\operatorname{Log} c = \operatorname{Log} b + \operatorname{Log} \sec A$ and $\operatorname{Log} a = \operatorname{Log} b + \operatorname{Log} \tan A$

In our case, $\operatorname{Log} b = \operatorname{Log} 26' 7\frac{1}{2}" = 1.42563$

$$\operatorname{Log} \sec A = 0.02710$$

$$\operatorname{Log} c = 1.45273 = \operatorname{Log} 28' 4\frac{1}{2}"$$

$$\operatorname{Log} b = 1.42563$$

$$\operatorname{Log} \tan A = 9.56180$$

$$\operatorname{Log} a = 0.98743 = \operatorname{Log} 9' 8\frac{9}{16}" \text{ nearly}$$

The parallel arrangement of the tables of Logs. and Squares can here be taken advantage of for checking the values of a and c ; namely: when taking from the table the Log. b , take at the same time its square, which, in our case, is 710.0004. In similar manner, while taking from the table the values of c and a , get also their squares, which in our example are respectively $a^2=94.3529$ and $c^2=804.4019$, then the relation of $a^2+b^2=c^2$ will show if a and c were figured correctly.

In our example, we have

$$\begin{aligned}
 a^2 &= 94.3529 \\
 b^2 &= 710.0004 \\
 c^2 &= 804.3533 = (28'4\frac{1}{4})^2 \text{ nearly}
 \end{aligned}$$

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	-∞	+∞	-∞	+∞	0.00000	0.00000	0	0	0
1/32	7.41567	2.58433	7.41567	2.58433	0.00000	0.00000	0	08	57
1/16	7.71669	2.28331	7.71670	2.28330	9.99999	0.00001	0	17	54
3/32	7.89278	2.10722	7.89279	2.10721	9.99999	0.00001	0	26	51
1/8	8.01771	1.98229	8.01773	1.98227	9.99998	0.00002	0	35	49
5/32	8.11460	1.88540	8.11464	1.88536	9.99996	0.00004	0	44	46
3/16	8.19377	1.80623	8.19382	1.80618	9.99995	0.00005	0	53	43
7/32	8.26069	1.73931	8.26077	1.73923	9.99993	0.00007	1	02	40
1/4	8.31866	1.68134	8.31876	1.68124	9.99991	0.00009	1	11	37
9/32	8.36979	1.63021	8.36991	1.63009	9.99988	0.00012	1	20	33
5/16	8.41552	1.58448	8.41567	1.58433	9.99985	0.00015	1	29	30
11/32	8.45688	1.54312	8.45706	1.54294	9.99982	0.00018	1	38	27
3/8	8.49464	1.50536	8.49485	1.50515	9.99979	0.00021	1	47	24
13/32	8.52936	1.47064	8.52961	1.47039	9.99975	0.00025	1	56	20
7/16	8.56151	1.43849	8.56180	1.43820	9.99971	0.00029	2	05	17
15/32	8.59143	1.40857	8.59176	1.40824	9.99967	0.00033	2	14	13
1/2	8.61941	1.38059	8.61979	1.38021	9.99962	0.00038	2	23	09
17/32	8.64569	1.35431	8.64612	1.35388	9.99957	0.00043	2	32	06
9/16	8.67046	1.32954	8.67094	1.32906	9.99952	0.00048	2	41	02
19/32	8.69389	1.30611	8.69442	1.30558	9.99947	0.00053	2	49	57
5/8	8.71611	1.28389	8.71670	1.28330	9.99941	0.00059	2	58	53
21/32	8.73724	1.26276	8.73789	1.26211	9.99935	0.00065	3	07	49
11/16	8.75738	1.24262	8.75809	1.24191	9.99929	0.00071	3	16	44
23/32	8.77662	1.22338	8.77740	1.22260	9.99922	0.00078	3	25	40
3/4	8.79503	1.20497	8.79588	1.20412	9.99915	0.00085	3	34	35
25/32	8.81269	1.18731	8.81361	1.18639	9.99908	0.00092	3	43	30
13/16	8.82965	1.17035	8.83064	1.16936	9.99901	0.00099	3	52	25
27/32	8.84596	1.15404	8.84703	1.15297	9.99893	0.00107	4	01	19
7/8	8.86168	1.13832	8.86283	1.13717	9.99885	0.00115	4	10	14
29/32	8.87683	1.12317	8.87807	1.12193	9.99876	0.00124	4	19	08
15/16	8.89147	1.10853	8.89279	1.10721	9.99868	0.00132	4	28	02
31/32	8.90562	1.09438	8.90703	1.09297	9.99859	0.00141	4	36	56
1	8.91932	1.08068	8.92082	1.07918	9.99850	0.00150	4	45	49

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	8.91932	1.08068	8.92082	1.07918	9.99850	0.00150	4	45	49
$\frac{1}{32}$	8.93258	1.06742	8.93418	1.06582	9.99840	0.00160	4	54	42
$\frac{1}{16}$	8.94545	1.05455	8.94715	1.05285	9.99830	0.00170	5	03	36
$\frac{3}{32}$	8.95794	1.04206	8.95974	1.04026	9.99820	0.00180	5	12	28
$\frac{1}{8}$	8.97007	1.02993	8.97197	1.02803	9.99810	0.00190	5	21	21
$\frac{5}{32}$	8.98186	1.01814	8.98387	1.01613	9.99799	0.00201	5	30	13
$\frac{3}{16}$	8.99334	1.00666	8.99545	1.00455	9.99788	0.00212	5	39	05
$\frac{7}{32}$	9.00450	0.99550	9.00673	0.99327	9.99777	0.00223	5	47	57
$\frac{1}{4}$	9.01539	0.98461	9.01773	0.98227	9.99766	0.00234	5	56	49
$\frac{9}{32}$	9.02599	0.97401	9.02845	0.97155	9.99754	0.00246	6	05	40
$\frac{5}{16}$	9.03634	0.96366	9.03892	0.96108	9.99742	0.00258	6	14	31
$\frac{11}{32}$	9.04643	0.95357	9.04914	0.95086	9.99729	0.00271	6	23	22
$\frac{3}{8}$	9.05629	0.94371	9.05912	0.94088	9.99717	0.00283	6	32	12
$\frac{13}{32}$	9.06592	0.93408	9.06888	0.93112	9.99704	0.00296	6	41	02
$\frac{7}{16}$	9.07533	0.92467	9.07843	0.92157	9.99691	0.00309	6	49	52
$\frac{15}{32}$	9.08454	0.91546	9.08777	0.91223	9.99677	0.00323	6	58	41
$\frac{1}{2}$	9.09354	0.90646	9.09691	0.90309	9.99663	0.00337	7	07	30
$\frac{17}{32}$	9.10236	0.89764	9.10586	0.89414	9.99649	0.00351	7	16	19
$\frac{9}{16}$	9.11099	0.88901	9.11464	0.88536	9.99635	0.00365	7	25	07
$\frac{19}{32}$	9.11944	0.88056	9.12324	0.87676	9.99620	0.00380	7	33	55
$\frac{5}{8}$	9.12773	0.87227	9.13167	0.86833	9.99605	0.00395	7	42	43
$\frac{21}{32}$	9.13585	0.86415	9.13994	0.86006	9.99590	0.00410	7	51	30
$\frac{11}{16}$	9.14381	0.85619	9.14806	0.85194	9.99575	0.00425	8	00	17
$\frac{23}{32}$	9.15162	0.84838	9.15603	0.84397	9.99559	0.00441	8	09	04
$\frac{3}{4}$	9.15929	0.84071	9.16386	0.83614	9.99543	0.00457	8	17	50
$\frac{25}{32}$	9.16681	0.83319	9.17154	0.82846	9.99527	0.00473	8	26	35
$\frac{13}{16}$	9.17420	0.82580	9.17910	0.82090	9.99510	0.00490	8	35	21
$\frac{27}{32}$	9.18145	0.81855	9.18652	0.81348	9.99493	0.00507	8	44	06
$\frac{7}{8}$	9.18858	0.81142	9.19382	0.80618	9.99476	0.00524	8	52	50
$\frac{29}{32}$	9.19559	0.80441	9.20100	0.79900	9.99459	0.00541	9	01	35
$\frac{15}{16}$	9.20247	0.79753	9.20806	0.79194	9.99441	0.00559	9	10	18
$\frac{31}{32}$	9.20924	0.79076	9.21501	0.78499	9.99423	0.00577	9	19	02
1	9.21590	0.78410	9.22185	0.77815	9.99405	0.00595	9	27	44

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.21590	0.78410	9.22185	0.77815	9.99405	0.00595	9	27	44
$\frac{1}{32}$	9.22245	0.77755	9.22858	0.77142	9.99387	0.00613	9	36	27
$\frac{1}{16}$	9.22889	0.77111	9.23521	0.76479	9.99368	0.00632	9	45	09
$\frac{3}{32}$	9.23523	0.76477	9.24174	0.75826	9.99349	0.00651	9	53	50
$\frac{1}{8}$	9.24147	0.75853	9.24818	0.75182	9.99330	0.00670	10	02	31
$\frac{5}{32}$	9.24762	0.75238	9.25452	0.74548	9.99310	0.00690	10	11	12
$\frac{3}{16}$	9.25367	0.74633	9.26077	0.73923	9.99290	0.00710	10	19	52
$\frac{7}{32}$	9.25963	0.74037	9.26693	0.73307	9.99270	0.00730	10	28	32
$\frac{1}{4}$	9.26550	0.73450	9.27300	0.72700	9.99250	0.00750	10	37	11
$\frac{9}{32}$	9.27128	0.72872	9.27899	0.72101	9.99229	0.00771	10	45	49
$\frac{5}{16}$	9.27698	0.72302	9.28490	0.71510	9.99208	0.00792	10	54	28
$\frac{11}{32}$	9.28260	0.71740	9.29073	0.70927	9.99187	0.00813	11	03	05
$\frac{3}{8}$	9.28814	0.71186	9.29648	0.70352	9.99166	0.00834	11	11	42
$\frac{13}{32}$	9.29360	0.70640	9.30216	0.69784	9.99144	0.00856	11	20	19
$\frac{7}{16}$	9.29898	0.70102	9.30776	0.69224	9.99122	0.00878	11	28	55
$\frac{15}{32}$	9.30429	0.69571	9.31330	0.68670	9.99100	0.00900	11	37	31
$\frac{1}{2}$	9.30953	0.69047	9.31876	0.68124	9.99077	0.00923	11	46	06
$\frac{17}{32}$	9.31470	0.68530	9.32415	0.67585	9.99055	0.00945	11	54	40
$\frac{9}{16}$	9.31980	0.68020	9.32948	0.67052	9.99032	0.00968	12	03	14
$\frac{19}{32}$	9.32483	0.67517	9.33475	0.66525	9.99008	0.00992	12	11	48
$\frac{5}{8}$	9.32980	0.67020	9.33995	0.66005	9.98985	0.01015	12	20	21
$\frac{21}{32}$	9.33470	0.66530	9.34509	0.65491	9.98961	0.01039	12	28	53
$\frac{11}{16}$	9.33954	0.66046	9.35017	0.64983	9.98937	0.01063	12	37	25
$\frac{23}{32}$	9.34432	0.65568	9.35519	0.64481	9.98913	0.01087	12	45	56
$\frac{3}{4}$	9.34904	0.65096	9.36015	0.63985	9.98889	0.01111	12	54	27
$\frac{25}{32}$	9.35370	0.64630	9.36506	0.63494	9.98864	0.01136	13	02	57
$\frac{13}{16}$	9.35830	0.64170	9.36991	0.63009	9.98839	0.01161	13	11	26
$\frac{27}{32}$	9.36285	0.63715	9.37471	0.62529	9.98814	0.01186	13	19	55
$\frac{7}{8}$	9.36734	0.63266	9.37946	0.62054	9.98788	0.01212	13	28	23
$\frac{29}{32}$	9.37177	0.62823	9.38415	0.61585	9.98762	0.01238	13	36	51
$\frac{15}{16}$	9.37616	0.62384	9.38880	0.61120	9.98736	0.01264	13	45	18
$\frac{31}{32}$	9.38049	0.61951	9.39339	0.60661	9.98710	0.01290	13	53	45
1	9.38478	0.61522	9.39794	0.60206	9.98684	0.01316	14	02	10

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.38478	0.61522	9.39794	0.60206	9.98684	0.01316	14	02	10
$\frac{1}{32}$	9.38901	0.61099	9.40244	0.59756	9.98657	0.01343	14	10	36
$\frac{1}{16}$	9.39319	0.60681	9.40689	0.59311	9.98630	0.01370	14	19	00
$\frac{3}{32}$	9.39733	0.60267	9.41130	0.58870	9.98603	0.01397	14	27	24
$\frac{1}{8}$	9.40142	0.59858	9.41567	0.58433	9.98575	0.01425	14	35	48
$\frac{5}{32}$	9.40546	0.59454	9.41999	0.58001	9.98547	0.01453	14	44	10
$\frac{3}{16}$	9.40946	0.59054	9.42427	0.57573	9.98520	0.01480	14	52	32
$\frac{7}{32}$	9.41342	0.58658	9.42851	0.57149	9.98491	0.01509	15	00	54
$\frac{1}{4}$	9.41733	0.58267	9.43270	0.56730	9.98463	0.01537	15	09	15
$\frac{9}{32}$	9.42120	0.57880	9.43686	0.56314	9.98434	0.01566	15	17	35
$\frac{5}{16}$	9.42503	0.57497	9.44097	0.55903	9.98405	0.01595	15	25	54
$\frac{11}{32}$	9.42881	0.57119	9.44505	0.55495	9.98376	0.01624	15	34	13
$\frac{3}{8}$	9.43256	0.56744	9.44909	0.55091	9.98347	0.01653	15	42	31
$\frac{13}{32}$	9.43627	0.56373	9.45310	0.54690	9.98317	0.01683	15	50	49
$\frac{7}{16}$	9.43994	0.56006	9.45706	0.54294	9.98287	0.01713	15	59	05
$\frac{15}{32}$	9.44357	0.55643	9.46099	0.53901	9.98257	0.01743	16	07	21
$\frac{1}{2}$	9.44716	0.55284	9.46489	0.53511	9.98227	0.01773	16	15	37
$\frac{17}{32}$	9.45071	0.54929	9.46875	0.53125	9.98147	0.01803	16	23	51
$\frac{9}{16}$	9.45423	0.54577	9.47257	0.52743	9.98166	0.01834	16	32	05
$\frac{19}{32}$	9.45772	0.54228	9.47637	0.52363	9.98135	0.01865	16	40	19
$\frac{5}{8}$	9.46116	0.53884	9.48013	0.51987	9.98104	0.01896	16	48	31
$\frac{21}{32}$	9.46458	0.53542	9.48385	0.51615	9.98072	0.01928	16	56	43
$\frac{11}{16}$	9.46796	0.53204	9.48755	0.51245	9.98041	0.01959	17	04	54
$\frac{23}{32}$	9.47130	0.52870	9.49122	0.50878	9.98009	0.01991	17	13	05
$\frac{3}{4}$	9.47462	0.52538	9.49485	0.50515	9.97977	0.02023	17	21	14
$\frac{25}{32}$	9.47790	0.52210	9.49845	0.50155	9.97944	0.02056	17	29	23
$\frac{13}{16}$	9.48115	0.51885	9.50203	0.49797	9.97912	0.02088	17	37	32
$\frac{27}{32}$	9.48436	0.51564	9.50557	0.49443	9.97879	0.02121	17	45	39
$\frac{7}{8}$	9.48755	0.51245	9.50909	0.49091	9.97846	0.02154	17	53	46
$\frac{29}{32}$	9.49071	0.50929	9.51258	0.48742	9.97813	0.02187	18	01	52
$\frac{15}{16}$	9.49383	0.50617	9.51604	0.48396	9.97780	0.02220	18	09	57
$\frac{31}{32}$	9.49693	0.50307	9.51947	0.48053	9.97746	0.02254	18	18	02
1	9.50000	0.50000	9.52288	0.47712	9.97712	0.02288	18	26	06

Fraction of an inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	0.50000	0.50000	9.52288	0.47712	9.97712	0.02288	18	26	06
$\frac{1}{32}$	9.50304	0.49696	9.52626	0.47374	9.97678	0.02322	18	34	09
$\frac{1}{16}$	9.50605	0.49395	9.52961	0.47039	9.97644	0.02356	18	42	11
$\frac{3}{32}$	9.50903	0.49097	9.53294	0.46706	9.97609	0.02391	18	50	13
$\frac{1}{8}$	9.51199	0.48801	9.53624	0.46376	9.97575	0.02425	18	58	13
$\frac{5}{32}$	9.51492	0.48508	9.53952	0.46048	9.97540	0.02460	19	06	13
$\frac{3}{16}$	9.51782	0.48218	9.54277	0.45723	9.97505	0.02495	19	14	12
$\frac{7}{32}$	9.52070	0.47930	9.54600	0.45400	9.97469	0.02531	19	22	11
$\frac{1}{4}$	9.52355	0.47645	9.54921	0.45079	9.97434	0.02566	19	30	09
$\frac{9}{32}$	9.52637	0.47363	9.55239	0.44761	9.97398	0.02602	19	38	06
$\frac{5}{16}$	9.52917	0.47083	9.55555	0.44445	9.97362	0.02638	19	46	02
$\frac{11}{32}$	9.53195	0.46805	9.55868	0.44132	9.97326	0.02674	19	53	57
$\frac{3}{8}$	9.53470	0.46530	9.56180	0.43820	9.97290	0.02710	20	01	52
$\frac{13}{32}$	9.53742	0.46258	9.56489	0.43511	9.97254	0.02746	20	09	45
$\frac{7}{16}$	9.54013	0.45987	9.56796	0.43204	9.97217	0.02783	20	17	38
$\frac{15}{32}$	9.54280	0.45720	9.57100	0.42900	9.97180	0.02820	20	25	30
$\frac{1}{2}$	9.54546	0.45454	9.57403	0.42597	9.97143	0.02857	20	33	22
$\frac{17}{32}$	9.54809	0.45191	9.57704	0.42296	9.97106	0.02894	20	41	12
$\frac{9}{16}$	9.55070	0.44930	9.58002	0.41998	9.97068	0.02932	20	49	02
$\frac{19}{32}$	9.55329	0.44671	9.58299	0.41701	9.97030	0.02970	20	56	51
$\frac{5}{8}$	9.55586	0.44414	9.58593	0.41407	9.96993	0.03007	21	04	39
$\frac{21}{32}$	9.55840	0.44160	9.58886	0.41114	9.96955	0.03045	21	12	26
$\frac{11}{16}$	9.56092	0.43908	9.59176	0.40824	9.96916	0.03084	21	20	13
$\frac{23}{32}$	9.56342	0.43658	9.59465	0.40535	9.96878	0.03122	21	27	58
$\frac{3}{4}$	9.56591	0.43409	9.59751	0.40249	9.96839	0.03161	21	35	43
$\frac{25}{32}$	9.56836	0.43164	9.60036	0.39964	9.96800	0.03200	21	43	27
$\frac{13}{16}$	9.57080	0.42920	9.60319	0.39681	9.96761	0.03239	21	51	10
$\frac{27}{32}$	9.57322	0.42678	9.60600	0.39400	9.96722	0.03278	21	58	52
$\frac{7}{8}$	9.57562	0.42438	9.60879	0.39121	9.96683	0.03317	22	06	34
$\frac{29}{32}$	9.57800	0.42200	9.61157	0.38843	9.96643	0.03357	22	14	15
$\frac{15}{16}$	9.58036	0.41964	9.61433	0.38567	9.96604	0.03396	22	21	54
$\frac{31}{32}$	9.58270	0.41730	9.61707	0.38293	9.96564	0.03436	22	29	33
1	9.58503	0.41497	9.61979	0.38021	9.96524	0.03476	22	37	12

Fractions of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.58503	0.41497	9.61979	0.38021	9.96524	0.03476	22	37	12
$\frac{1}{32}$	9.58733	0.41267	9.62249	0.37751	9.96484	0.03516	22	44	49
$\frac{1}{16}$	9.58962	0.41038	9.62518	0.37482	9.96443	0.03557	22	52	25
$\frac{3}{32}$	9.59188	0.40812	9.62786	0.37214	9.96403	0.03597	23	00	01
$\frac{1}{8}$	9.59413	0.40587	9.63051	0.36949	9.96362	0.03638	23	07	35
$\frac{5}{32}$	9.59636	0.40364	9.63315	0.36685	9.96321	0.03679	23	15	09
$\frac{3}{16}$	9.59857	0.40143	9.63578	0.36422	9.96280	0.03720	23	22	42
$\frac{7}{32}$	9.60077	0.39923	9.63839	0.36161	9.96238	0.03762	23	30	14
$\frac{1}{4}$	9.60295	0.39705	9.64098	0.35902	9.96197	0.03803	23	37	46
$\frac{9}{32}$	9.60511	0.39489	9.64356	0.35644	9.96155	0.03845	23	45	16
$\frac{5}{16}$	9.60725	0.39275	9.64612	0.35388	9.96114	0.03886	23	52	46
$\frac{11}{32}$	9.60938	0.39062	9.64866	0.35134	9.96072	0.03928	24	00	14
$\frac{3}{8}$	9.61149	0.38851	9.65120	0.34880	9.96030	0.03970	24	07	42
$\frac{13}{32}$	9.61359	0.38641	9.65371	0.34629	9.95987	0.04013	24	15	09
$\frac{7}{16}$	9.61567	0.38433	9.65622	0.34378	9.95945	0.04055	24	22	35
$\frac{15}{32}$	9.61773	0.38227	9.65871	0.34129	9.95902	0.04098	24	30	00
$\frac{1}{2}$	9.61978	0.38022	9.66118	0.33882	9.95859	0.04141	24	37	25
$\frac{17}{32}$	9.62181	0.37819	9.66364	0.33636	9.95817	0.04183	24	44	48
$\frac{9}{16}$	9.62382	0.37618	9.66609	0.33391	9.95773	0.04227	24	52	11
$\frac{19}{32}$	9.62582	0.37418	9.66852	0.33148	9.95730	0.04270	24	59	33
$\frac{5}{8}$	9.62781	0.37219	9.67094	0.32906	9.95687	0.04313	25	06	53
$\frac{21}{32}$	9.62978	0.37022	9.67335	0.32665	9.95643	0.04357	25	14	13
$\frac{11}{16}$	9.63174	0.36826	9.67574	0.32426	9.95600	0.04400	25	21	32
$\frac{23}{32}$	9.63368	0.36632	9.67812	0.32188	9.95556	0.04444	25	28	51
$\frac{3}{4}$	9.63560	0.36440	9.68049	0.31951	9.95512	0.04488	25	36	08
$\frac{25}{32}$	9.63752	0.36248	9.68284	0.31716	9.95468	0.04532	25	43	24
$\frac{13}{16}$	9.63942	0.36058	9.68518	0.31482	9.95423	0.04577	25	50	40
$\frac{27}{32}$	9.64130	0.35870	9.68751	0.31249	9.95379	0.04621	25	57	54
$\frac{7}{8}$	9.64317	0.35683	9.68983	0.31017	9.95334	0.04666	26	05	08
$\frac{29}{32}$	9.64503	0.35497	9.69213	0.30787	9.95290	0.04710	26	12	21
$\frac{15}{16}$	9.64687	0.35313	9.69442	0.30558	9.95245	0.04755	26	19	33
$\frac{31}{32}$	9.64870	0.35130	9.69670	0.30330	9.95200	0.04800	26	26	44
1	9.65051	0.34949	9.69897	0.30103	9.95154	0.04846	26	33	54

Fraction of an inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.65051	0.34949	9.69897	0.30103	9.95154	0.04846	26	33	54
$\frac{1}{32}$	9.65232	0.34768	9.70123	0.29877	9.95109	0.04891	26	41	03
$\frac{1}{16}$	9.65411	0.34589	9.70347	0.29653	9.95064	0.04936	26	48	12
$\frac{3}{32}$	9.65588	0.34412	9.70570	0.29430	9.95018	0.04982	26	55	19
$\frac{1}{8}$	9.65765	0.34235	9.70792	0.29208	9.94972	0.05028	27	02	26
$\frac{5}{32}$	9.65940	0.34060	9.71014	0.28986	9.94927	0.05073	27	09	32
$\frac{3}{16}$	9.66114	0.33886	9.71233	0.28767	9.94881	0.05119	27	16	36
$\frac{7}{32}$	9.66287	0.33713	9.71452	0.28548	9.94834	0.05166	27	23	40
$\frac{1}{4}$	9.66458	0.33542	9.71670	0.28330	9.94789	0.05212	27	30	43
$\frac{9}{32}$	9.66628	0.33372	9.71886	0.28114	9.94742	0.05258	27	37	45
$\frac{5}{16}$	9.66797	0.33203	9.72102	0.27898	9.94695	0.05305	27	44	46
$\frac{11}{32}$	9.66965	0.33035	9.72316	0.27684	9.94649	0.05351	27	51	47
$\frac{3}{8}$	9.67132	0.32868	9.72530	0.27470	9.94602	0.05398	27	58	46
$\frac{13}{32}$	9.67297	0.32703	9.72742	0.27258	9.94555	0.05445	28	05	45
$\frac{7}{16}$	9.67461	0.32539	9.72954	0.27046	9.94508	0.05492	28	12	42
$\frac{15}{32}$	9.67625	0.32375	9.73164	0.26836	9.94461	0.05539	28	19	39
$\frac{1}{2}$	9.67787	0.32213	9.73373	0.26627	9.94413	0.05587	28	26	35
$\frac{17}{32}$	9.67947	0.32053	9.73582	0.26418	9.94366	0.05634	28	33	29
$\frac{9}{16}$	9.68107	0.31893	9.73789	0.26211	9.94318	0.05682	28	40	23
$\frac{19}{32}$	9.68266	0.31734	9.73995	0.26005	9.94271	0.05729	28	47	16
$\frac{5}{8}$	9.68423	0.31577	9.74200	0.25800	9.94223	0.05777	28	54	09
$\frac{21}{32}$	9.68580	0.31420	9.74405	0.25595	9.94175	0.05825	29	00	00
$\frac{11}{16}$	9.68735	0.31265	9.74608	0.25392	9.94127	0.05873	29	07	50
$\frac{23}{32}$	9.68889	0.31110	9.74811	0.25189	9.94079	0.05921	29	14	39
$\frac{3}{4}$	9.69043	0.30957	9.75012	0.24988	9.94031	0.05969	29	21	28
$\frac{25}{32}$	9.69195	0.30805	9.75213	0.24787	9.93982	0.06018	29	28	16
$\frac{13}{16}$	9.69346	0.30654	9.75413	0.24587	9.93934	0.06066	29	35	02
$\frac{27}{32}$	9.69496	0.30504	9.75611	0.24389	9.93885	0.06115	29	41	48
$\frac{7}{8}$	9.69645	0.30355	9.75809	0.24191	9.93836	0.06164	29	48	33
$\frac{29}{32}$	9.69794	0.30206	9.76006	0.23994	9.93787	0.06213	29	55	17
$\frac{15}{8}$	9.69941	0.30059	9.76202	0.23798	9.93738	0.06262	30	02	00
$\frac{31}{32}$	9.70087	0.29913	9.76397	0.23603	9.93689	0.06311	30	08	42
1	9.70232	0.29768	9.76592	0.23408	9.93640	0.06360	30	15	23

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.70232	0.29768	9.76592	0.23408	9.93640	0.06360	30	15	23
$\frac{1}{32}$	9.70376	0.29624	9.76785	0.23215	9.93591	0.06409	30	22	04
$\frac{1}{16}$	9.70519	0.29481	9.76978	0.23022	9.93542	0.06458	30	28	43
$\frac{3}{32}$	9.70662	0.29338	9.77169	0.22831	9.93492	0.06508	30	35	21
$\frac{1}{8}$	9.70803	0.29197	9.77360	0.22640	9.93443	0.06557	30	41	59
$\frac{5}{32}$	9.70943	0.29057	9.77550	0.22450	9.93393	0.06607	30	48	36
$\frac{3}{16}$	9.71083	0.28917	9.77740	0.22260	9.93343	0.06657	30	55	11
$\frac{7}{32}$	9.71221	0.28779	9.77928	0.22072	9.93293	0.06707	31	01	46
$\frac{1}{4}$	9.71359	0.28641	9.78116	0.21884	9.93243	0.06757	31	08	20
$\frac{9}{32}$	9.71495	0.28505	9.78302	0.21698	9.93193	0.06807	31	14	53
$\frac{5}{16}$	9.71631	0.28369	9.78488	0.21512	9.93143	0.06857	31	21	26
$\frac{11}{32}$	9.71766	0.28234	9.78674	0.21326	9.93092	0.06908	31	27	57
$\frac{3}{8}$	9.71900	0.28100	9.78858	0.21142	9.93042	0.06958	31	34	27
$\frac{13}{32}$	9.72033	0.27967	9.79042	0.20958	9.92992	0.07008	31	40	57
$\frac{7}{16}$	9.72166	0.27834	9.79225	0.20775	9.92941	0.07059	31	47	25
$\frac{15}{32}$	9.72297	0.27703	9.79407	0.20593	9.92890	0.07110	31	53	53
$\frac{1}{2}$	9.72427	0.27573	9.79588	0.20412	9.92839	0.07161	32	00	19
$\frac{17}{32}$	9.72557	0.27443	9.79769	0.20231	9.92789	0.07211	32	06	45
$\frac{9}{16}$	9.72686	0.27314	9.79948	0.20052	9.92738	0.07262	32	13	10
$\frac{19}{32}$	9.72814	0.27186	9.80128	0.19872	9.92687	0.07313	32	19	34
$\frac{5}{8}$	9.72941	0.27059	9.80306	0.19694	9.92635	0.07365	32	25	57
$\frac{21}{32}$	9.73068	0.26932	9.80483	0.19517	9.92584	0.07416	32	32	19
$\frac{11}{16}$	9.73193	0.26807	9.80660	0.19340	9.92533	0.07467	32	38	41
$\frac{23}{32}$	9.73318	0.26682	9.80837	0.19163	9.92481	0.07519	32	45	01
$\frac{3}{4}$	9.73442	0.26558	9.81012	0.18988	9.92430	0.07570	32	51	21
$\frac{25}{32}$	9.73565	0.26435	9.81187	0.18813	9.92378	0.07622	32	57	39
$\frac{13}{16}$	9.73688	0.26312	9.81361	0.18639	9.92327	0.07673	33	03	57
$\frac{27}{32}$	9.73809	0.26191	9.81534	0.18466	9.92275	0.07725	33	10	14
$\frac{7}{8}$	9.73930	0.26070	9.81707	0.18293	9.92223	0.07777	33	16	30
$\frac{29}{32}$	9.74050	0.25950	9.81879	0.18121	9.92171	0.07829	33	22	45
$\frac{15}{16}$	9.74169	0.25831	9.82050	0.17950	9.92119	0.07881	33	28	59
$\frac{31}{32}$	9.74288	0.25712	9.82221	0.17779	9.92067	0.07933	33	35	12
1	9.74406	0.25594	9.82391	0.17609	9.92015	0.07985	33	41	24

Fraction of an inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.74406	0.25594	9.82391	0.17609	9.92015	0.07985	33	41	24
$\frac{1}{32}$	9.74523	0.25477	9.82560	0.17440	9.91963	0.08037	33	47	36
$\frac{1}{16}$	9.74639	0.25361	9.82729	0.17271	9.91910	0.08090	33	53	46
$\frac{3}{32}$	9.74755	0.25245	9.82897	0.17103	9.91858	0.08142	33	59	56
$\frac{1}{8}$	9.74870	0.25130	9.83064	0.16936	9.91806	0.08194	34	06	05
$\frac{5}{32}$	9.74984	0.25016	9.83231	0.16769	9.91753	0.08247	34	12	12
$\frac{3}{16}$	9.75097	0.24903	9.83397	0.16603	9.91700	0.08300	34	18	19
$\frac{7}{32}$	9.75210	0.24790	9.83562	0.16438	9.91648	0.08352	34	24	25
$\frac{1}{4}$	9.75322	0.24678	9.83727	0.16273	9.91595	0.08405	34	30	31
$\frac{9}{32}$	9.75434	0.24566	9.83891	0.16109	9.91542	0.08458	34	36	35
$\frac{5}{16}$	9.75544	0.24456	9.84055	0.15945	9.91489	0.08511	34	42	38
$\frac{11}{32}$	9.75654	0.24346	9.84218	0.15782	9.91436	0.08564	34	48	41
$\frac{3}{8}$	9.75764	0.24236	9.84380	0.15620	9.91383	0.08617	34	54	43
$\frac{13}{32}$	9.75872	0.24128	9.84542	0.15458	9.91330	0.08670	35	00	43
$\frac{7}{16}$	9.75980	0.24020	9.84703	0.15297	9.91277	0.08723	35	06	43
$\frac{15}{32}$	9.76087	0.23913	9.84864	0.15136	9.91224	0.08776	35	12	42
$\frac{1}{2}$	9.76194	0.23806	9.85024	0.14976	9.91170	0.08830	35	18	40
$\frac{17}{32}$	9.76300	0.23700	9.85183	0.14817	9.91117	0.08883	35	24	38
$\frac{9}{16}$	9.76405	0.23595	9.85342	0.14658	9.91063	0.08937	35	30	34
$\frac{19}{32}$	9.76510	0.23490	9.85500	0.14500	9.91010	0.08990	35	36	30
$\frac{5}{8}$	9.76614	0.23386	9.85658	0.14342	9.90956	0.09044	35	42	24
$\frac{21}{32}$	9.76718	0.23282	9.85815	0.14185	9.90903	0.09097	35	48	18
$\frac{11}{16}$	9.76820	0.23180	9.85971	0.14029	9.90849	0.09151	35	54	11
$\frac{23}{32}$	9.76923	0.23077	9.86127	0.13873	9.90795	0.09205	36	00	03
$\frac{3}{4}$	9.77024	0.22976	9.86283	0.13717	9.90742	0.09258	36	05	54
$\frac{25}{32}$	9.77125	0.22875	9.86438	0.13562	9.90688	0.09312	36	11	44
$\frac{13}{16}$	9.77226	0.22774	9.86592	0.13408	9.90634	0.09366	36	17	33
$\frac{27}{32}$	9.77325	0.22675	9.86746	0.13254	9.90580	0.09420	36	23	22
$\frac{7}{8}$	9.77424	0.22576	9.86899	0.13101	9.90526	0.09474	36	29	10
$\frac{29}{32}$	9.77523	0.22477	9.87051	0.12949	9.90472	0.09528	36	34	56
$\frac{15}{16}$	9.77621	0.22379	9.87203	0.12797	9.90417	0.09583	36	40	42
$\frac{31}{32}$	9.77718	0.22282	9.87355	0.12645	9.90363	0.09637	36	46	27
1	9.77815	0.22185	9.87506	0.12494	9.90309	0.09691	36	52	12

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec	Deg.	Min.	Sec.
0	9.77815	0.22185	9.87506	0.12494	9.90309	0.09691	36	52	12
$\frac{1}{32}$	9.77911	0.22089	9.87657	0.12343	9.90255	0.09745	36	57	55
$\frac{1}{16}$	9.78007	0.21993	9.87807	0.12193	9.90200	0.09800	37	03	37
$\frac{3}{32}$	9.78102	0.21898	9.87956	0.12044	9.90146	0.09854	37	09	19
$\frac{1}{8}$	9.78197	0.21803	9.88105	0.11895	9.90091	0.09909	37	15	00
$\frac{5}{32}$	9.78291	0.21709	9.88254	0.11746	9.90037	0.09963	37	20	40
$\frac{3}{16}$	9.78384	0.21616	9.88402	0.11598	9.89982	0.10018	37	26	19
$\frac{7}{32}$	9.78477	0.21523	9.88549	0.11451	9.89928	0.10072	37	31	57
$\frac{1}{4}$	9.78569	0.21431	9.88696	0.11304	9.89873	0.10127	37	37	34
$\frac{9}{32}$	9.78661	0.21339	9.88843	0.11157	9.89818	0.10182	37	43	11
$\frac{5}{16}$	9.78752	0.21248	9.88989	0.11011	9.89764	0.10236	37	48	47
$\frac{11}{32}$	9.78843	0.21157	9.89134	0.10866	9.89709	0.10291	37	54	21
$\frac{3}{8}$	9.78933	0.21067	9.89279	0.10721	9.89654	0.10346	37	59	56
$\frac{13}{32}$	9.79023	0.20977	9.89424	0.10576	9.89699	0.10401	38	05	29
$\frac{7}{16}$	9.79112	0.20888	9.89568	0.10432	9.89544	0.10456	38	11	01
$\frac{15}{32}$	9.79200	0.20800	9.89711	0.10289	9.89489	0.10511	38	16	32
$\frac{1}{2}$	9.79288	0.20712	9.89854	0.10146	9.89434	0.10566	38	22	03
$\frac{17}{32}$	9.79376	0.20624	9.89997	0.10003	9.89379	0.10621	38	27	33
$\frac{9}{16}$	9.79463	0.20537	9.90139	0.09861	9.89324	0.10676	38	33	02
$\frac{19}{32}$	9.79550	0.20450	9.90281	0.09719	9.89269	0.10731	38	38	30
$\frac{5}{8}$	9.79636	0.20364	9.90422	0.09578	9.89214	0.10786	38	43	57
$\frac{21}{32}$	9.79721	0.20279	9.90563	0.09437	9.89158	0.10842	38	49	24
$\frac{11}{16}$	9.79806	0.20194	9.90703	0.09297	9.89103	0.10897	38	54	49
$\frac{23}{32}$	9.79891	0.20109	9.90843	0.09157	9.89048	0.10952	39	00	14
$\frac{3}{4}$	9.79975	0.20025	9.90982	0.09018	9.88993	0.11007	39	05	38
$\frac{25}{32}$	9.80058	0.19942	9.91121	0.08879	9.88937	0.11063	39	11	01
$\frac{13}{16}$	9.80142	0.19858	9.91260	0.08740	9.88882	0.11118	39	16	23
$\frac{27}{32}$	9.80224	0.19776	9.91398	0.08602	9.88826	0.11174	39	21	45
$\frac{7}{8}$	9.80306	0.19694	9.91536	0.08464	9.88771	0.11229	39	27	06
$\frac{29}{32}$	9.80388	0.19612	9.91673	0.08327	9.88715	0.11285	39	32	25
$\frac{15}{16}$	9.80469	0.19531	9.91810	0.08190	9.88660	0.11340	39	37	44
$\frac{31}{32}$	9.80550	0.19450	9.91946	0.08054	9.88604	0.11396	39	43	03
1	9.80631	0.19369	9.92082	0.07918	9.88549	0.11451	39	48	20

Fraction of an Inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec.	Deg.	Min.	Sec.
0	9.80631	0.19369	9.92082	0.07918	9.88549	0.11451	39	48	20
$\frac{1}{32}$	9.80710	0.19290	9.92217	0.07783	9.88493	0.11507	39	53	37
$\frac{1}{16}$	9.80790	0.19210	9.92352	0.07648	9.88437	0.11563	39	58	52
$\frac{3}{32}$	9.80869	0.19131	9.92487	0.07513	9.88382	0.11618	40	04	07
$\frac{1}{8}$	9.80947	0.19053	9.92621	0.07379	9.88326	0.11674	40	09	22
$\frac{5}{32}$	9.81025	0.18975	9.92755	0.07245	9.88270	0.11730	40	14	35
$\frac{3}{16}$	9.81103	0.18897	9.92889	0.07111	9.88214	0.11786	40	19	48
$\frac{7}{32}$	9.81180	0.18820	9.93022	0.06978	9.88159	0.11841	40	24	59
$\frac{1}{4}$	9.81257	0.18743	9.93154	0.06846	9.88103	0.11897	40	30	10
$\frac{9}{32}$	9.81333	0.18667	9.93286	0.06714	9.88047	0.11953	40	35	20
$\frac{5}{16}$	9.81409	0.18591	9.93418	0.06582	9.87991	0.12009	40	40	30
$\frac{11}{32}$	9.81485	0.18515	9.93550	0.06450	9.87935	0.12065	40	45	38
$\frac{3}{8}$	9.81560	0.18440	9.93681	0.06319	9.87879	0.12121	40	50	46
$\frac{13}{32}$	9.81634	0.18366	9.93811	0.06189	9.87823	0.12177	40	55	53
$\frac{7}{16}$	9.81709	0.18291	9.93942	0.06058	9.87767	0.12233	41	00	59
$\frac{15}{32}$	9.81782	0.18218	9.94071	0.05929	9.87711	0.12289	41	06	05
$\frac{1}{2}$	9.81856	0.18144	9.94201	0.05799	9.87655	0.12345	41	11	09
$\frac{17}{32}$	9.81929	0.18071	9.94330	0.05670	9.87599	0.12401	41	16	13
$\frac{9}{16}$	9.82001	0.17999	9.94459	0.05541	9.87543	0.12457	41	21	16
$\frac{19}{32}$	9.82074	0.17926	9.94587	0.05413	9.87487	0.12513	41	26	18
$\frac{5}{8}$	9.82145	0.17855	9.94715	0.05285	9.87431	0.12569	41	31	20
$\frac{21}{32}$	9.82217	0.17783	9.94842	0.05158	9.87375	0.12625	41	36	21
$\frac{11}{16}$	9.82288	0.17712	9.94969	0.05031	9.87318	0.12682	41	41	21
$\frac{23}{32}$	9.82359	0.17641	9.95096	0.04904	9.87262	0.12738	41	46	20
$\frac{3}{4}$	9.82429	0.17571	9.95223	0.04777	9.87206	0.12794	41	51	18
$\frac{25}{32}$	9.82499	0.17501	9.95349	0.04651	9.87150	0.12850	41	56	16
$\frac{13}{16}$	9.82568	0.17432	9.95474	0.04526	9.87094	0.12906	42	01	13
$\frac{27}{32}$	9.82637	0.17363	9.95600	0.04400	9.87037	0.12963	42	06	09
$\frac{7}{8}$	9.82706	0.17294	9.95725	0.04275	9.86981	0.13019	42	11	04
$\frac{29}{32}$	9.82774	0.17226	9.95849	0.04151	9.86925	0.13075	42	15	59
$\frac{15}{16}$	9.82842	0.17158	9.95974	0.04026	9.86868	0.13132	42	20	52
$\frac{31}{32}$	9.82910	0.17090	9.96098	0.03902	9.86812	0.13188	42	25	45
1	9.82977	0.17023	9.96221	0.03779	9.86756	0.13244	42	30	38

Fraction of an inch	LOGARITHMIC FUNCTIONS						Angle		
	Sine.	Cosec.	Tang.	Cotang.	Cosine.	Sec	Deg.	Min.	Sec.
0	9.82977	0.17023	9.96221	0.03779	9.86756	0.13244	42	30	38
$\frac{1}{32}$	9.83044	0.16956	9.96344	0.03656	9.86699	0.13301	42	35	29
$\frac{1}{16}$	9.83110	0.16890	9.96467	0.03533	9.86643	0.13357	42	40	20
$\frac{3}{32}$	9.83177	0.16823	9.96590	0.03410	9.86587	0.13413	42	45	10
$\frac{1}{8}$	9.83242	0.16758	9.96712	0.03288	9.86530	0.13470	42	49	59
$\frac{5}{32}$	9.83308	0.16692	9.96834	0.03166	9.86474	0.13526	42	54	48
$\frac{3}{16}$	9.83373	0.16627	9.96955	0.03045	9.86418	0.13582	42	59	35
$\frac{7}{32}$	9.83437	0.16563	9.97076	0.02924	9.86361	0.13639	43	04	22
$\frac{1}{4}$	9.83502	0.16498	9.97197	0.02803	9.86305	0.13695	43	09	09
$\frac{9}{32}$	9.83566	0.16434	9.97318	0.02682	9.86248	0.13752	43	13	54
$\frac{5}{16}$	9.83630	0.16370	9.97438	0.02562	9.86192	0.13808	43	18	39
$\frac{11}{32}$	9.83693	0.16307	9.97558	0.02442	9.86135	0.13865	43	23	23
$\frac{3}{8}$	9.83756	0.16244	9.97677	0.02323	9.86079	0.13921	43	28	06
$\frac{13}{32}$	9.83819	0.16181	9.97796	0.02204	9.86022	0.13978	43	32	49
$\frac{7}{16}$	9.83881	0.16119	9.97915	0.02085	9.85966	0.14034	43	37	31
$\frac{15}{32}$	9.83943	0.16057	9.98033	0.01967	9.85909	0.14091	43	42	12
$\frac{1}{2}$	9.84005	0.15995	9.98152	0.01848	9.85853	0.14147	43	46	52
$\frac{17}{32}$	9.84066	0.15934	9.98270	0.01730	9.85797	0.14203	43	51	32
$\frac{9}{16}$	9.84127	0.15873	9.98387	0.01613	9.85740	0.14260	43	56	11
$\frac{19}{32}$	9.84188	0.15812	9.98504	0.01496	9.85683	0.14317	44	00	49
$\frac{5}{8}$	9.84248	0.15752	9.98621	0.01379	9.85627	0.14373	44	05	26
$\frac{21}{32}$	9.84308	0.15692	9.98738	0.01262	9.85570	0.14430	44	10	03
$\frac{11}{16}$	9.84368	0.15632	9.98854	0.01146	9.85514	0.14486	44	14	39
$\frac{23}{32}$	9.84427	0.15573	9.98970	0.01030	9.85457	0.14543	44	19	14
$\frac{3}{4}$	9.84487	0.15513	9.99086	0.00914	9.85401	0.14599	44	23	49
$\frac{25}{32}$	9.84545	0.15455	9.99201	0.00799	9.85344	0.14656	44	28	23
$\frac{13}{16}$	9.84604	0.15396	9.99316	0.00684	9.85288	0.14712	44	32	56
$\frac{27}{32}$	9.84662	0.15338	9.99431	0.00569	9.85231	0.14769	44	37	28
$\frac{7}{8}$	9.84720	0.15280	9.99545	0.00455	9.85175	0.14825	44	42	00
$\frac{29}{32}$	9.84778	0.15222	9.99659	0.00341	9.85118	0.14882	44	46	31
$\frac{15}{16}$	9.84835	0.15165	9.99773	0.00227	9.85062	0.14938	44	51	01
$\frac{31}{32}$	9.84892	0.15108	9.99887	0.00113	9.85005	0.14995	44	55	31
1	9.84949	0.15051	0.00000	0.00000	9.84948	0.15052	45	00	00

TABLE OF LOGARITHMS OF NUMBERS
From 0 to 1000.

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
0	—	50	1.69897	100	2.00000	150	2.17609	200	2.30103
1	0.00000	51	1.70757	101	2.00432	151	2.17898	201	2.30820
2	0.30103	52	1.71600	102	2.00860	152	2.18184	202	2.30635
3	0.47712	53	1.72428	103	2.01284	153	2.18469	203	2.30750
4	0.60206	54	1.73239	104	2.01703	154	2.18752	204	2.30963
5	0.69897	55	1.74036	105	2.02119	155	2.19033	205	2.31175
6	0.77815	56	1.74819	106	2.02531	156	2.19312	206	2.31387
7	0.84510	57	1.75587	107	2.02938	157	2.19590	207	2.31597
8	0.90309	58	1.76343	108	2.03342	158	2.19866	208	2.31806
9	0.95424	59	1.77085	109	2.03743	159	2.20140	209	2.32015
10	1.00000	60	1.77815	110	2.04139	160	2.20412	210	2.32222
11	1.04139	61	1.78533	111	2.04532	161	2.20683	211	2.32428
12	1.07918	62	1.79239	112	2.04922	162	2.20952	212	2.32634
13	1.11394	63	1.79934	113	2.05308	163	2.21219	213	2.32838
14	1.14613	64	1.80618	114	2.05690	164	2.21484	214	2.33041
15	1.17609	65	1.81291	115	2.06070	165	2.21748	215	2.33244
16	1.20412	66	1.81954	116	2.06446	166	2.22011	216	2.33445
17	1.23045	67	1.82607	117	2.06819	167	2.22272	217	2.33646
18	1.25527	68	1.83251	118	2.07188	168	2.22531	218	2.33846
19	1.27875	69	1.83885	119	2.07555	169	2.22789	219	2.34044
20	1.30103	70	1.84510	120	2.07918	170	2.23045	220	2.34242
21	1.32222	71	1.85126	121	2.08279	171	2.23300	221	2.34439
22	1.34242	72	1.85733	122	2.08636	172	2.23553	222	2.34635
23	1.36173	73	1.86332	123	2.08991	173	2.23805	223	2.34830
24	1.38021	74	1.86923	124	2.09342	174	2.24055	224	2.35025
25	1.39794	75	1.87506	125	2.09691	175	2.24304	225	2.35218
26	1.41497	76	1.88081	126	2.10037	176	2.24551	226	2.35411
27	1.43136	77	1.88649	127	2.10380	177	2.24797	227	2.35603
28	1.44719	78	1.89209	128	2.10721	178	2.25042	228	2.35793
29	1.46240	79	1.89763	129	2.11059	179	2.25285	229	2.35984
30	1.47712	80	1.90309	130	2.11394	180	2.25527	230	2.36173
31	1.49136	81	1.90849	131	2.11727	181	2.25768	231	2.36361
32	1.50515	82	1.91381	132	2.12057	182	2.26007	232	2.36549
33	1.51851	83	1.91908	133	2.12385	183	2.26245	233	2.36736
34	1.53148	84	1.92428	134	2.12710	184	2.26482	234	2.36922
35	1.54407	85	1.92942	135	2.13033	185	2.26717	235	2.37107
36	1.55630	86	1.93450	136	2.13354	186	2.26951	236	2.37291
37	1.56820	87	1.93952	137	2.13672	187	2.27184	237	2.37475
38	1.57978	88	1.94448	138	2.13988	188	2.27416	238	2.37658
39	1.59106	89	1.94939	139	2.14301	189	2.27646	239	2.37840
40	1.60206	90	1.95424	140	2.14613	190	2.27875	240	2.38021
41	1.61278	91	1.95904	141	2.14922	191	2.28103	241	2.38202
42	1.62325	92	1.96379	142	2.15229	192	2.28330	242	2.38382
43	1.63347	93	1.96848	143	2.15534	193	2.28556	243	2.38561
44	1.64345	94	1.97313	144	2.15836	194	2.28780	244	2.38739
45	1.65321	95	1.97772	145	2.16137	195	2.29003	245	2.38917
46	1.66276	96	1.98227	146	2.16435	196	2.29226	246	2.39094
47	1.67210	97	1.98677	147	2.16732	197	2.29447	247	2.39270
48	1.68124	98	1.99123	148	2.17026	198	2.29667	248	2.39445
49	1.69020	99	1.99564	149	2.17319	199	2.29885	249	2.39620
50	1.69897	100	2.00000	150	2.17609	200	2.30103	250	2.39794
No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
250	2.39794	300	2.47712	350	2.54407	400	2.60206	450	2.65321
251	2.39967	301	2.47857	351	2.54531	401	2.60314	451	2.65418
252	2.40140	302	2.48001	352	2.54654	402	2.60423	452	2.65514
253	2.40312	303	2.48144	353	2.54777	403	2.60531	453	2.65610
254	2.40483	304	2.48287	354	2.54900	404	2.60638	454	2.65706
255	2.40654	305	2.48430	355	2.55023	405	2.60746	455	2.65801
256	2.40824	306	2.48572	356	2.55145	406	2.60853	456	2.65896
257	2.40993	307	2.48714	357	2.55267	407	2.60969	457	2.65992
258	2.41162	308	2.48855	358	2.55388	408	2.61066	458	2.66087
259	2.41330	309	2.48996	359	2.55509	409	2.61172	459	2.66181
260	2.41497	310	2.49136	360	2.55630	410	2.61278	460	2.66276
261	2.41664	311	2.49276	361	2.55751	411	2.61384	461	2.66370
262	2.41830	312	2.49415	362	2.55871	412	2.61490	462	2.66464
263	2.41996	313	2.49554	363	2.55991	413	2.61595	463	2.66558
264	2.42160	314	2.49693	364	2.56110	414	2.61700	464	2.66652
265	2.42325	315	2.49831	365	2.56229	415	2.61805	465	2.66745
266	2.42488	316	2.49969	366	2.56348	416	2.61909	466	2.66839
267	2.42651	317	2.50106	367	2.56467	417	2.62014	467	2.66932
268	2.42813	318	2.50243	368	2.56585	418	2.62118	468	2.67025
269	2.42975	319	2.50379	369	2.56703	419	2.62221	469	2.67117
270	2.43136	320	2.50515	370	2.56820	420	2.62325	470	2.67210
271	2.43297	321	2.50651	371	2.56937	421	2.62428	471	2.67302
272	2.43457	322	2.50786	372	2.57054	422	2.62531	472	2.67394
273	2.43616	323	2.50920	373	2.57171	423	2.62634	473	2.67486
274	2.43775	324	2.51055	374	2.57287	424	2.62737	474	2.67578
275	2.43933	325	2.51188	375	2.57403	425	2.62839	475	2.67669
276	2.44091	326	2.51322	376	2.57519	426	2.62941	476	2.67761
277	2.44248	327	2.51455	377	2.57634	427	2.63043	477	2.67852
278	2.44404	328	2.51587	378	2.57749	428	2.63144	478	2.67943
279	2.44560	329	2.51720	379	2.57864	429	2.63246	479	2.68034
280	2.44716	330	2.51851	380	2.57978	430	2.63347	480	2.68124
281	2.44871	331	2.51983	381	2.58092	431	2.63448	481	2.68215
282	2.45025	332	2.52114	382	2.58206	432	2.63548	482	2.68305
283	2.45179	333	2.52244	383	2.58320	433	2.63649	483	2.68395
284	2.45332	334	2.52375	384	2.58433	434	2.63749	484	2.68485
285	2.45484	335	2.52504	385	2.58546	435	2.63849	485	2.68574
286	2.45637	336	2.52633	386	2.58659	436	2.63949	486	2.68664
287	2.45788	337	2.52763	387	2.58771	437	2.64048	487	2.68753
288	2.45939	338	2.52892	388	2.58883	438	2.64147	488	2.68842
289	2.46090	339	2.53020	389	2.58995	439	2.64246	489	2.68931
290	2.46240	340	2.53148	390	2.59106	440	2.64345	490	2.69020
291	2.46389	341	2.53275	391	2.59218	441	2.64444	491	2.69108
292	2.46538	342	2.53403	392	2.59329	442	2.64542	492	2.69197
293	2.46687	343	2.53529	393	2.59439	443	2.64640	493	2.69285
294	2.46835	344	2.53656	394	2.59550	444	2.64738	494	2.69373
295	2.46982	345	2.53782	395	2.59660	445	2.64836	495	2.69461
296	2.47129	346	2.53908	396	2.59770	446	2.64933	496	2.69548
297	2.47276	347	2.54033	397	2.59879	447	2.65031	497	2.69636
298	2.47422	348	2.54158	398	2.59988	448	2.65128	498	2.69723
299	2.47567	349	2.54283	399	2.60097	449	2.65225	499	2.69810
300	2.47712	350	2.54407	400	2.60206	450	2.65321	500	2.69897
No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
500	2.69897	550	2.74036	600	2.77815	650	2.81291	700	2.84510
501	2.69984	551	2.74115	601	2.77887	651	2.81358	701	2.84572
502	2.70070	552	2.74194	602	2.77960	652	2.81426	702	2.84634
503	2.70157	553	2.74273	603	2.78032	653	2.81491	703	2.84696
504	2.70243	554	2.74351	604	2.78104	654	2.81558	704	2.84757
505	2.70329	555	2.74429	605	2.78176	655	2.81624	705	2.84819
506	2.70415	556	2.74507	606	2.78247	656	2.81690	706	2.84880
507	2.70501	557	2.74586	607	2.78319	657	2.81757	707	2.84942
508	2.70586	558	2.74663	608	2.78390	658	2.81823	708	2.85003
509	2.70672	559	2.74741	609	2.78462	659	2.81889	709	2.85065
510	2.70757	560	2.74819	610	2.78533	660	2.81964	710	2.85126
511	2.70842	561	2.74896	611	2.78604	661	2.82020	711	2.85187
512	2.70927	562	2.74974	612	2.78675	662	2.82066	712	2.85248
513	2.71012	563	2.75051	613	2.78746	663	2.82151	713	2.85309
514	2.71096	564	2.75128	614	2.78817	664	2.82217	714	2.85370
515	2.71181	565	2.75205	615	2.78888	665	2.82282	715	2.85431
516	2.71265	566	2.75282	616	2.78958	666	2.82347	716	2.85491
517	2.71349	567	2.75358	617	2.79029	667	2.82413	717	2.85552
518	2.71433	568	2.75435	618	2.79099	668	2.82478	718	2.85612
519	2.71517	569	2.75511	619	2.79169	669	2.82543	719	2.85673
520	2.71600	570	2.75587	620	2.79239	670	2.82607	720	2.85733
521	2.71684	571	2.75664	621	2.79309	671	2.82672	721	2.85794
522	2.71767	572	2.75740	622	2.79379	672	2.82737	722	2.85854
523	2.71850	573	2.75815	623	2.79449	673	2.82802	723	2.85914
524	2.71933	574	2.75891	624	2.79518	674	2.82866	724	2.85974
525	2.72016	575	2.75967	625	2.79588	675	2.82930	725	2.86034
526	2.72099	576	2.76042	626	2.79657	676	2.82995	726	2.86094
527	2.72181	577	2.76118	627	2.79727	677	2.83059	727	2.86153
528	2.72263	578	2.76193	628	2.79796	678	2.83123	728	2.86213
529	2.72346	579	2.76268	629	2.79865	679	2.83187	729	2.86273
530	2.72428	580	2.76343	630	2.79934	680	2.83251	730	2.86333
531	2.72509	581	2.76418	631	2.80003	681	2.83315	731	2.86392
532	2.72591	582	2.76492	632	2.80072	682	2.83378	732	2.86451
533	2.72673	583	2.76567	633	2.80140	683	2.83442	733	2.86510
534	2.72754	584	2.76641	634	2.80209	684	2.83506	734	2.86570
535	2.72835	585	2.76716	635	2.80277	685	2.83569	735	2.86629
536	2.72916	586	2.76790	636	2.80346	686	2.83632	736	2.86688
537	2.72997	587	2.76864	637	2.80414	687	2.83696	737	2.86747
538	2.73078	588	2.76938	638	2.80482	688	2.83759	738	2.86806
539	2.73159	589	2.77012	639	2.80550	689	2.83822	739	2.86864
540	2.73239	590	2.77085	640	2.80618	690	2.83885	740	2.86923
541	2.73320	591	2.77159	641	2.80686	691	2.83948	741	2.86982
542	2.73400	592	2.77232	642	2.80754	692	2.84011	742	2.87040
543	2.73480	593	2.77305	643	2.80821	693	2.84073	743	2.87099
544	2.73560	594	2.77379	644	2.80889	694	2.84136	744	2.87157
545	2.73640	595	2.77452	645	2.80956	695	2.84198	745	2.87216
546	2.73719	596	2.77525	646	2.81023	696	2.84261	746	2.87274
547	2.73799	597	2.77597	647	2.81090	697	2.84323	747	2.87332
548	2.73878	598	2.77670	648	2.81158	698	2.84386	748	2.87390
549	2.73957	599	2.77743	649	2.81224	699	2.84448	749	2.87448
550	2.74036	600	2.77815	650	2.81291	700	2.84510	750	2.87506
No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.

750	2.87506	800	2.90809	850	2.92942	900	2.95424	950	2.97772
751	2.87564	801	2.90863	851	2.92968	901	2.95472	951	2.97818
752	2.87622	802	2.90917	852	2.93044	902	2.95521	952	2.97864
753	2.87679	803	2.90972	853	2.93096	903	2.95569	953	2.97909
754	2.87737	804	2.91028	854	2.93146	904	2.95617	954	2.97955
755	2.87795	805	2.91080	855	2.93197	905	2.95665	955	2.98000
756	2.87852	806	2.91134	856	2.93247	906	2.95713	956	2.98046
757	2.87910	807	2.91187	857	2.93298	907	2.95761	957	2.98091
758	2.87967	808	2.91241	858	2.93349	908	2.95809	958	2.98137
759	2.88024	809	2.91295	859	2.93399	909	2.95856	959	2.98182
760	2.88081	810	2.91349	860	2.93450	910	2.95904	960	2.98227
761	2.88138	811	2.91402	861	2.93500	911	2.95952	961	2.98272
762	2.88195	812	2.91456	862	2.93551	912	2.95999	962	2.98318
763	2.88252	813	2.91509	863	2.93601	913	2.96047	963	2.98363
764	2.88309	814	2.91562	864	2.93651	914	2.96095	964	2.98408
765	2.88366	815	2.91616	865	2.93702	915	2.96142	965	2.98453
766	2.88423	816	2.91669	866	2.93752	916	2.96190	966	2.98498
767	2.88480	817	2.91722	867	2.93802	917	2.96237	967	2.98543
768	2.88538	818	2.91775	868	2.93852	918	2.96284	968	2.98588
769	2.88593	819	2.91828	869	2.93902	919	2.96332	969	2.98632
770	2.88649	820	2.91881	870	2.93952	920	2.96379	970	2.98677
771	2.88706	821	2.91934	871	2.94002	921	2.96426	971	2.98722
772	2.88762	822	2.91987	872	2.94052	922	2.96473	972	2.98767
773	2.88818	823	2.92040	873	2.94101	923	2.96520	973	2.98811
774	2.88874	824	2.92093	874	2.94151	924	2.96567	974	2.98856
775	2.88930	825	2.92145	875	2.94201	925	2.96614	975	2.98900
776	2.88986	826	2.92198	876	2.94250	926	2.96661	976	2.98945
777	2.89042	827	2.92251	877	2.94300	927	2.96708	977	2.98989
778	2.89098	828	2.92303	878	2.94349	928	2.96755	978	2.99034
779	2.89154	829	2.92355	879	2.94399	929	2.96802	979	2.99078
780	2.89209	830	2.92408	880	2.94448	930	2.96848	980	2.99123
781	2.89265	831	2.92460	881	2.94498	931	2.96895	981	2.99167
782	2.89321	832	2.92512	882	2.94547	932	2.96942	982	2.99211
783	2.89376	833	2.92565	883	2.94596	933	2.96988	983	2.99255
784	2.89432	834	2.92617	884	2.94645	934	2.97035	984	2.99300
785	2.89487	835	2.92669	885	2.94694	935	2.97081	985	2.99344
786	2.89542	836	2.92721	886	2.94743	936	2.97128	986	2.99388
787	2.89597	837	2.92773	887	2.94792	937	2.97174	987	2.99432
788	2.89653	838	2.92824	888	2.94841	938	2.97220	988	2.99476
789	2.89708	839	2.92876	889	2.94890	939	2.97267	989	2.99520
790	2.89763	840	2.92928	890	2.94939	940	2.97313	990	2.99564
791	2.89818	841	2.92980	891	2.94988	941	2.97359	991	2.99607
792	2.89873	842	2.93031	892	2.95036	942	2.97405	992	2.99651
793	2.89927	843	2.93083	893	2.95085	943	2.97451	993	2.99695
794	2.89982	844	2.93134	894	2.95134	944	2.97497	994	2.99739
795	2.90037	845	2.93186	895	2.95182	945	2.97543	995	2.99782
796	2.90091	846	2.93237	896	2.95231	946	2.97589	996	2.99826
797	2.90146	847	2.93288	897	2.95279	947	2.97635	997	2.99870
798	2.90200	848	2.93340	898	2.95328	948	2.97681	998	2.99913
799	2.90255	849	2.93391	899	2.95376	949	2.97727	999	2.99957
800	2.90309	850	2.93442	900	2.95424	950	2.97772	1000	3.00000
No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.

DECIMAL EQUIVALENTS.

Fractions of an inch.	DECIMALS OF A FOOT.							Fractions of an inch.
	0''	1''	2''	3''	4''	5''	6''	
0	.0000	.0833	.1667	.2500	.3333	.4167	.5000	0
$\frac{1}{32}$	.0026	.0859	.1693	.2526	.3359	.4193	.5026	$\frac{1}{32}$
$\frac{1}{16}$	.0052	.0885	.1719	.2552	.3385	.4219	.5052	$\frac{1}{16}$
$\frac{3}{32}$	.0078	.0911	.1745	.2578	.3411	.4245	.5078	$\frac{3}{32}$
$\frac{1}{8}$	.0104	.0938	.1771	.2604	.3438	.4271	.5104	$\frac{1}{8}$
$\frac{5}{32}$	.0130	.0964	.1797	.2630	.3464	.4297	.5130	$\frac{5}{32}$
$\frac{3}{16}$	.0156	.0990	.1823	.2656	.3490	.4323	.5156	$\frac{3}{16}$
$\frac{7}{32}$	.0182	.1016	.1849	.2682	.3516	.4349	.5182	$\frac{7}{32}$
$\frac{1}{4}$	.0208	.1042	.1875	.2708	.3542	.4375	.5208	$\frac{1}{4}$
$\frac{9}{32}$	.0234	.1068	.1901	.2734	.3568	.4401	.5234	$\frac{9}{32}$
$\frac{5}{16}$	.0260	.1094	.1927	.2760	.3594	.4427	.5260	$\frac{5}{16}$
$\frac{11}{32}$	.0286	.1120	.1953	.2786	.3620	.4453	.5286	$\frac{11}{32}$
$\frac{3}{8}$	.0313	.1146	.1979	.2813	.3646	.4479	.5313	$\frac{3}{8}$
$\frac{13}{32}$	.0339	.1172	.2005	.2839	.3672	.4505	.5339	$\frac{13}{32}$
$\frac{7}{16}$	.0365	.1198	.2031	.2865	.3698	.4531	.5365	$\frac{7}{16}$
$\frac{15}{32}$	.0391	.1224	.2057	.2891	.3724	.4557	.5391	$\frac{15}{32}$
$\frac{1}{2}$	.0417	.1250	.2083	.2917	.3750	.4583	.5417	$\frac{1}{2}$
$\frac{17}{32}$	.0443	.1276	.2109	.2943	.3776	.4609	.5443	$\frac{17}{32}$
$\frac{9}{16}$	.0469	.1302	.2135	.2969	.3802	.4635	.5469	$\frac{9}{16}$
$\frac{19}{32}$	.0495	.1328	.2161	.2995	.3828	.4661	.5495	$\frac{19}{32}$
$\frac{5}{8}$	.0521	.1354	.2188	.3021	.3854	.4688	.5521	$\frac{5}{8}$
$\frac{21}{32}$	.0547	.1380	.2214	.3047	.3880	.4714	.5547	$\frac{21}{32}$
$\frac{11}{16}$	.0573	.1406	.2240	.3073	.3906	.4740	.5573	$\frac{11}{16}$
$\frac{23}{32}$	.0599	.1432	.2266	.3099	.3932	.4766	.5599	$\frac{23}{32}$
$\frac{3}{4}$	.0625	.1458	.2292	.3125	.3958	.4792	.5625	$\frac{3}{4}$
$\frac{25}{32}$	.0651	.1484	.2318	.3151	.3984	.4818	.5651	$\frac{25}{32}$
$\frac{13}{16}$	.0677	.1510	.2344	.3177	.4010	.4844	.5677	$\frac{13}{16}$
$\frac{27}{32}$	.0703	.1536	.2370	.3203	.4036	.4870	.5703	$\frac{27}{32}$
$\frac{7}{8}$	.0729	.1563	.2396	.3229	.4063	.4896	.5729	$\frac{7}{8}$
$\frac{29}{32}$	.0755	.1589	.2422	.3255	.4089	.4922	.5755	$\frac{29}{32}$
$\frac{15}{16}$	.0781	.1615	.2448	.3281	.4115	.4948	.5781	$\frac{15}{16}$
$\frac{31}{32}$	.0807	.1641	.2474	.3307	.4141	.4974	.5807	$\frac{31}{32}$
1	.0833	.1667	.2500	.3333	.4167	.5000	.5833	1

DECIMAL EQUIVALENTS.

Fractions of an inch.	DECIMALS OF A FOOT.					Fractions of an inch.	Decimals of an inch
	7''	8''	9''	10''	11''		
0	.5833	.6667	.7500	.8333	.9167	0	.00000
$\frac{1}{32}$	.5859	.6693	.7526	.8359	.9193	$\frac{1}{32}$	.03125
$\frac{1}{16}$	.5885	.6719	.7552	.8385	.9219	$\frac{1}{16}$	.06250
$\frac{3}{32}$	.5911	.6745	.7578	.8411	.9245	$\frac{3}{32}$	.09375
$\frac{1}{8}$	.5938	.6771	.7604	.8438	.9271	$\frac{1}{8}$	.12500
$\frac{5}{32}$	.5964	.6797	.7630	.8464	.9297	$\frac{5}{32}$	.15625
$\frac{3}{16}$	.5990	.6823	.7656	.8490	.9323	$\frac{3}{16}$	.18750
$\frac{7}{32}$	.6016	.6849	.7682	.8516	.9349	$\frac{7}{32}$	.21875
$\frac{1}{4}$	.6042	.6875	.7708	.8542	.9375	$\frac{1}{4}$	.25000
$\frac{9}{32}$	.6068	.6901	.7734	.8568	.9401	$\frac{9}{32}$	.28125
$\frac{5}{16}$	.6094	.6927	.7760	.8594	.9427	$\frac{5}{16}$	.31250
$\frac{11}{32}$	.6120	.6953	.7786	.8620	.9453	$\frac{11}{32}$	.34375
$\frac{3}{8}$	.6146	.6979	.7813	.8646	.9479	$\frac{3}{8}$	.37500
$\frac{13}{32}$	.6172	.7005	.7839	.8672	.9505	$\frac{13}{32}$	.40625
$\frac{7}{16}$	.6198	.7031	.7865	.8698	.9531	$\frac{7}{16}$	.43750
$\frac{15}{32}$	.6224	.7057	.7891	.8724	.9557	$\frac{15}{32}$	.46875
$\frac{1}{2}$	.6250	.7083	.7917	.8750	.9583	$\frac{1}{2}$	.50000
$\frac{17}{32}$	.6276	.7109	.7943	.8776	.9609	$\frac{17}{32}$	.53125
$\frac{9}{16}$	.6302	.7135	.7969	.8802	.9635	$\frac{9}{16}$	.56250
$\frac{19}{32}$	.6328	.7161	.7995	.8828	.9661	$\frac{19}{32}$	.59375
$\frac{5}{8}$	.6354	.7188	.8021	.8854	.9688	$\frac{5}{8}$	.62500
$\frac{21}{32}$	.6380	.7214	.8047	.8880	.9714	$\frac{21}{32}$	.65625
$\frac{11}{16}$	.6406	.7240	.8073	.8906	.9740	$\frac{11}{16}$	.68750
$\frac{23}{32}$	.6432	.7266	.8099	.8932	.9766	$\frac{23}{32}$	.71875
$\frac{3}{4}$	.6458	.7292	.8125	.8958	.9792	$\frac{3}{4}$	.75000
$\frac{25}{32}$	.6484	.7318	.8151	.8984	.9818	$\frac{25}{32}$	.78125
$\frac{13}{16}$	.6510	.7344	.8177	.9010	.9844	$\frac{13}{16}$	.81250
$\frac{27}{32}$	.6536	.7370	.8203	.9036	.9870	$\frac{27}{32}$	.84375
$\frac{7}{8}$	.6563	.7396	.8229	.9063	.9896	$\frac{7}{8}$	.87500
$\frac{29}{32}$	.6589	.7422	.8255	.9089	.9922	$\frac{29}{32}$	.90625
$\frac{15}{8}$	.6615	.7448	.8281	.9115	.9948	$\frac{15}{8}$	.93750
$\frac{31}{32}$	.6641	.7474	.8307	.9141	.9974	$\frac{31}{32}$	.96875
1	.6667	.7500	.8333	.9167	1.0000	1	1.00000

CONSTANTS FREQUENTLY USED IN COMPUTATIONS.

	LOGS.
$\pi=3.14159265\dots\dots\dots$	0.49715
$\frac{\pi}{4}=0.78539816\dots\dots\dots$	9.89509—10
$\frac{1}{\pi}=0.31830989\dots\dots\dots$	9.50285—10
$\sqrt{\pi}=1.77245385\dots\dots\dots$	0.24857
$\pi^2=9.86960440\dots\dots\dots$	0.99430
$\sqrt{2}=1.41421356\dots\dots\dots$	0.15051
$\sqrt{\frac{1}{2}}=0.70710678\dots\dots\dots$	9.84949—10
1 Meter=3.28083' nearly 3'3 $\frac{3}{8}$ "	0.51598

Circumference of a circle whose diameter is 1'0''= π ', nearly 3'1 $\frac{45}{64}$ "

Length of Arc for Dia.=1'0'':

	LOG.
Arc of 1°=0.0087266 of a foot, nearly $\frac{7}{64}$ of an inch..	7.94085—10
Arc of 1'=0.0001454 of a foot.....	6.16270—10

Length of Arc for Rad.=1'0'':

Arc of 1°=0.0174532 of a foot, nearly $\frac{7}{62}$ of an inch..	8.24188—10
Arc of 1'=0.0002908 of a foot.....	6.46373—10

EXPLANATIONS AND EXAMPLES.

The use of the Log. tables is based upon the following four properties of logarithms:

(1) The Log. of the product of any number of factors is equal to the sum of the Logs. of these factors. Accordingly, multiplication can be effected by adding the Logs. of the given factors and finding the number whose Log. is equal to that of the sum obtained.

Example: To multiply $7 \times 15 \times 8$.

$$\begin{array}{r} \text{On page 317} \quad \text{Log. } 7 = 0.84510 \\ \text{Log. } 15 = 1.17609 \\ \text{Log. } 8 = 0.90309 \\ \hline \text{Sum} = 2.92428 \end{array}$$

The number having this Log. is 840 (page 320).

(2) The Log. of any quotient is equal to the Log. of the dividend, minus the Log. of the divisor. Division can thus be made by subtracting the Log. of the divisor from that of the dividend, and finding the number whose Log. is equal to that of the difference obtained.

Example: To find $x = \frac{35 \times 27}{45}$; $\text{Log. } x = \text{Log. } 35 + \text{Log. } 27 - \text{Log. } 45$.

$$\begin{array}{r} \text{Log. } 35 = 1.54407 \\ \text{Log. } 27 = 1.43136 \\ \hline \text{Log. of Dividend} = 2.97543 \\ \text{Log. } 45 = 1.65321 \\ \hline \text{Log. } x = 1.32222 = \text{Log. } 21. \end{array}$$

(3) The Log. of any power of a number is equal to the Log. of the number multiplied by the exponent of the power.

$$\begin{array}{r} \text{For instance } \text{Log. } 25^2 = 2 \text{ Log. } 25 \\ \text{Log. } 25 = 1.39794 \\ \hline \text{Log. } 25^2 = 2.79588 = \text{Log. } 625 \end{array}$$

(4) The Log. of the root of any number is equal to the Log. of the number, divided by the index of the root.

$$\begin{array}{r} \text{For instance, } \text{Log. } \sqrt{529} = \frac{1}{2} \text{ Log. } 529 \\ \text{Log. } 529 = 2.72346 \\ \hline \text{Log. } \sqrt{529} = 1.36173 = \text{Log. } 23 \end{array}$$

In performing additions and subtractions of Logs. it is necessary to take into consideration the fact that the Logs. of numbers less than 1 are negative, but for the sake of convenience, they are turned into positive expressions by increasing them by 10 units. For instance, the Log. of $0'3\frac{7}{32}''$ is given in the table as 9.42851; its true Log. equals $9.42851-10$, and so is the Log. of every item from 0 to $1'0''$. Therefore, (1) when adding Logs. if the sum obtained is more than 10 units, decrease it by 10. *) For instance, to find $x=5 \times 0'7\frac{1}{16}''$

$$\text{Log } x = \text{Log } 5 + \text{Log } 0'7\frac{1}{16}''$$

$$\text{Log } 5 = 0.69897$$

$$\text{Log } 0'7\frac{1}{16}'' = 9.78488$$

$$\text{Log } x = 0.48385 = \text{Log } 3'0\frac{9}{16}''$$

(2) when making divisions if the Log. of the divisor is greater than that of the dividend, add to the Log. of the dividend 10 units. Example: To find $x=46'10'' \div 64$

$$\text{Log } x = \text{Log } 46'10'' - \text{Log } 64$$

$$\text{Log } 46'10'' = 1.67056$$

$$\text{Log } 64 = 1.80618$$

$$\text{Log } x = 9.86438 = \text{Log } 0'82\frac{25}{32}''$$

SOME PRACTICAL EXAMPLES.

EXAMPLE I.

To find the circumference c of a circle whose dia. $d=7'3\frac{3}{4}''$

$$c = \pi d; \text{Log } c = \text{Log } \pi + \text{Log } d.$$

$$\text{On page 323: Log } \pi = 0.49715$$

$$\text{On page 30: Log } d = 0.86407$$

$$\text{Log } c = 1.36122$$

The number whose Log. is the nearest to this is $22'11\frac{1}{16}''$ (page 92) which is the required circumference.

EXAMPLE II.

In the right-triangle ABC (Figure 2) given $B C=7'9\frac{5}{8}''$; $A C=13'7\frac{3}{4}''$ and $A E=7'4\frac{1}{2}''$ to find $D E$ parallel to $B C$

$$D E = \frac{BC \times AE}{AC};$$

$$\text{Log } D E = \text{Log } B C + \text{Log } A E - \text{Log } A C$$

$$\text{Log } B C = 0.89221$$

$$\text{Log } A E = 0.86776$$

$$\text{Sum} = 1.75997$$

$$\text{Log } A C = 1.13500$$

$$\text{Log } D E = 0.62497$$

The number having the nearest Log. is $4'2\frac{19}{32}''$ (Page 17).

*) A number whose true Log. is more than 10 units, exceeds 10 billions.

EXAMPLE III.

To find the area A of a circle whose radius $r=15'8\frac{1}{2}''$.

Let a be the side of a square having the same area as the circle, then $A=\pi r^2=a^2$; $a=r\sqrt{\pi}$.

To obtain a^2 , find the Log. of a and the square corresponding to the Log. nearest to that found.

$$\text{Log } a = \text{Log } r + \text{Log } \sqrt{\pi}.$$

$$\text{On page 63: } \text{Log } r = 1.19613$$

$$\text{On page 323: } \text{Log } \sqrt{\pi} = 0.24857$$

$$\text{Log } a = 1.44470$$

The nearest square will be found on page 112 to be $=775.1294$, which is the required area in square feet.

As the absolute difference between the true area and the one obtained can never exceed $d = (a - \frac{1}{64 \times 12})^2 - a^2$, the result is near enough for all practical considerations.

EXAMPLE IV.

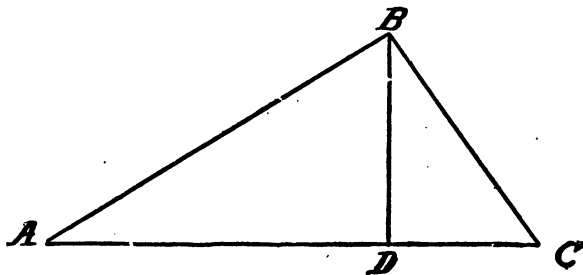


FIGURE 1.

Given the three sides of the triangle ABC , to find AD and DC , BD being the height of the triangle.

Let $AB=c$; $AC=b$; $BC=a$; $AD=m$ and $DC=n$, then

$$m = \frac{c^2 + b^2 - a^2}{2b} \quad \text{and}$$

$$n = \frac{a^2 + b^2 - c^2}{2b}$$

By the table of squares find $c^2 + b^2 - a^2 = w^2$ and $a^2 + b^2 - c^2 = v^2$

$$\text{then } m = \frac{w^2}{2b}; \quad n = \frac{v^2}{2b}$$

$$\text{Log } m = 2 \text{ Log } w - (\text{Log } 2 + \text{Log } b)$$

$$\text{Log } n = 2 \text{ Log } v - (\text{Log } 2 + \text{Log } b)$$

Find the Logs. corresponding to the nearest ω^2 and φ^2 * multiply these Logs. by 2, subtract from the product the Logs. of 2 and b, the differences will be the Logs. of m and n , by which m and n themselves can be obtained as in example 1.

EXAMPLE V.

In the right-triangle A B C (Figure 2) given B C=3'11¹⁵/₁₆'' , A C=8'10³/₈'' , to find the hypotenuse A B

$$\begin{aligned} A B^2 &= A C^2 + B C^2 \\ B C^2 &= 15.9584 \\ A C^2 &= 78.5808 \\ \text{Sum} &= 94.5392 = A B^2 \end{aligned}$$

The nearest square=94.5554 (Page 39) and the root=9'8¹¹/₁₆''.

Should the hypotenuse A B and one of the sides, say A C, be given and the other side B C required, subtract A C² from A B²; the difference will be equal to the square of B C, and the nearest root is then found as in the case above.

* The error in the values of m and n resulting from substituting these Logs. for the Logs. of ω and φ is less than $\frac{1}{82}$ '' . This can be proven as follows:

Let these errors be denoted respectively by e_m and e_n , and let h_w and h_v be the differences between the true values of ω and φ and the values whose Logs. are the nearest corresponding in the table to ω^2 and φ^2 ; then by Taylor's theorem:

$$\begin{aligned} e_m &= f(\omega + h_w) - f(\omega) = \\ &= f'(\omega) h_w + f''(\omega) \frac{h_w^2}{2!} + f'''(\omega) \frac{h_w^3}{3!} + \dots = \\ &= \frac{\omega h_w}{b} + \frac{h_w^2}{b}. \quad \text{As } h_w \text{ is less than } \frac{1}{64}'' \end{aligned}$$

$$\text{the value of } \frac{h_w^2}{b} \text{ can be neglected and } e_m = \frac{\omega h_w}{b}.$$

$$\text{As } \omega^2 = 2bm \text{ and } 2b > m$$

consequently $\omega < 2b$

$$\text{or } \frac{\omega}{b} < 2$$

$$\text{and } \frac{\omega h_w}{b} < 2h_w \text{ or } e_m < 2h_w$$

As $h_w < \frac{1}{64}$ '' , $e_m < 2h_w < \frac{1}{32}$ '' ; and by similar

reasoning it can be shown that $e_n < \frac{1}{82}$ ''

EXAMPLE VI.

In the preceding example required the bevel b

$$\frac{b}{1} = \frac{BC}{AC}; b = \frac{B C}{A C};$$

$$\text{Log } b = \text{Log. } B C - \text{Log. } A C$$

$$\text{Log } B C = 0.60149$$

$$\text{Log } A C = 0.94766$$

$$\text{Log } b = 9.65383$$

The nearest Log. is 9.65371 (Page 2), and the number having this Log. equals $5\frac{1}{2}$, which will be the required bevel.

Should $b=12''$ and the bevel parallel to AC be required, subtract the Log. of $B C$ from the Log. of $A C$, and find the nearest number as in preceding case.

It will frequently occur that $B C$ and $A C$ will be given, and both the hypotenuse $A B$ and the bevel b will be required in the same time. In this case, firstly, time can be saved by taking out from the tables at once the Logs. and the Squares of the given sides; secondly, the correctness of both the obtained length of the hypotenuse and that of the bevel can be checked in the following manner: When getting $A B$ by its Square, take out also from the table its Log.; subtract from the latter the Log. of AC ; the difference will be equal to the Log. of $\text{Sec } A$, as

$$\text{Sec } A = \frac{A B}{A C}, \text{ and } \text{Log Sec } A = \text{Log } A B - \text{Log } A C. \text{ The number}$$

corresponding to this Log. is then easily found; but as $\text{Sec }^2 A = 1 + b^2$, when getting b by its Log. take also its Square and add to it 1; the sum will be equal to $\text{Sec }^2 A$, and the corresponding root is again easily obtained. Both values of $\text{Sec } A$, thus obtained, must be equal to each other within $\frac{1}{32}''$ if the work is done correctly.

In the numerical examples V and VI:

$$\text{Log } A B = 0.98784$$

$$\text{Log } A C = 0.94766$$

$$\text{Log Sec } A = 0.04018$$

The nearest number $= 1'15\frac{1}{2}''$

$$b^2 = 0.2030$$

$$1 + b^2 = 1.2030$$

and the nearest root $= 1'15\frac{1}{2}''$.

EXAMPLE VII.

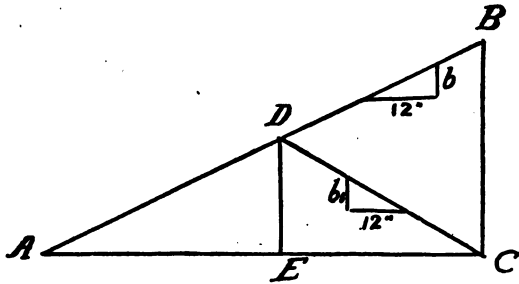


FIGURE 2.

In the structural frame $A D B C E$ given $A E$, $E C$ and $B C$ to find $A B$, $A D$, $D B$, $D E$, $D C$ and the bevels b and b_1 .

From the tables take the Logs. and the Squares of the given dimensions, $A C$, $B C$, $A E$ and $E C$, find $A B$ and its Log., b and its Square as in preceding examples. $D E$ is then found by formula given in example II :

$$D E = \frac{A E \times B C}{A C} = A E \times b$$

$$\text{Log. } D E = \text{Log. } A E + \text{Log } b$$

From which $D E$ and its square are obtained. $D C$ and b_1 are then found from the $\Delta D E C$, as in examples V and VI, and $A D$ from the $\Delta A D E$.

$A D$ and $D B$ can also be figured by the following formulas :

$$A D = A E \text{ Sec } A = \frac{A E \times A B}{A C}$$

$$D B = E C \text{ Sec } A = \frac{E C \times A B}{A C}$$

These formulas and those given in example IV can be used for checking the dimensions obtained.

EXAMPLE VIII.

In the tower frame A B C D (Figure 3) given

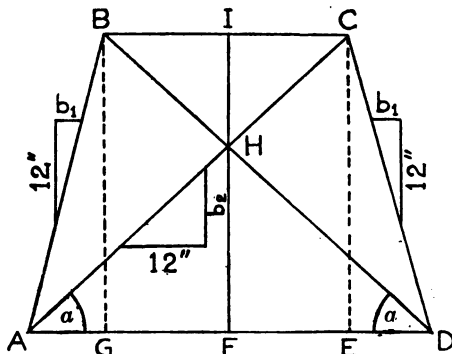


FIGURE 3.

B C, the height $C E = h$ and the bevel b_1 , to find AB, AD, AC, AH, HC, FH and IH.

NOTE—In working out this and similar problems the use of the schedule on the next page will result in considerable saving of time and enable the rapid checking of the derived quantities. In it N stands for Number, L for Logarithms, and S for Square. These three columns are to be filled out gradually, each line of figures by a single reference to the "Parallel Tables."

We begin with the solution of the triangle ABG, which is carried out in the same manner as the solution of the example on page 302, whereby the values of AG and AB are checked at the same time, thus preventing the carrying over of errors in the further calculations. Next we go over to the solution of the triangle ACE. In this triangle we need b_2 , AC, Log. tang. α and Log. sec. α . If we proceed in the same way as indicated on page 328, having already in our schedule-table the Log. and Square of CE, we take from the "Parallel Tables" the Log. and Square of AE, add the squares and subtract log. CE from log. AE; the first result gives AC^2 , and the second result, log. tang. $\alpha = \log. b_2$. Referring back to the "Parallel Tables," we take from it b_2 and b_2^2 and AC and log. AC, subtract log. AE from log. AC, the difference equals log. sec. α . Another reference to the table will give us sec. $^2 \alpha$, which equals $1 + \text{tg}^2 \alpha = 1 + b_2^2$, which relation will show if all the three data required were figured correctly. If this is the case we go over to the solution of the triangle AHF, in which

$$A H = A F \sec. \alpha \text{ and } H F = A F \text{tg} \alpha$$

$$\text{Hence Log. } A H = \text{Log. } A F + \text{Log. sec. } \alpha$$

and $\log H F = \log A F + \log \operatorname{tg} a$

Similarly, $\log H C = \log I C + \log \operatorname{sec} a$

and $\log H I = \log I C + \log \operatorname{tang} a$

The checking of the latter dimensions can be done by means of the simple relations of $A H + H C = A C$ and $I H + H F = h$.

The schedule below shows the results carried out for the numerical values of $b_1 = 1\frac{1}{2}''$, $B C = 24' 6\frac{1}{2}''$, and $h = 25' 5\frac{1}{2}''$.

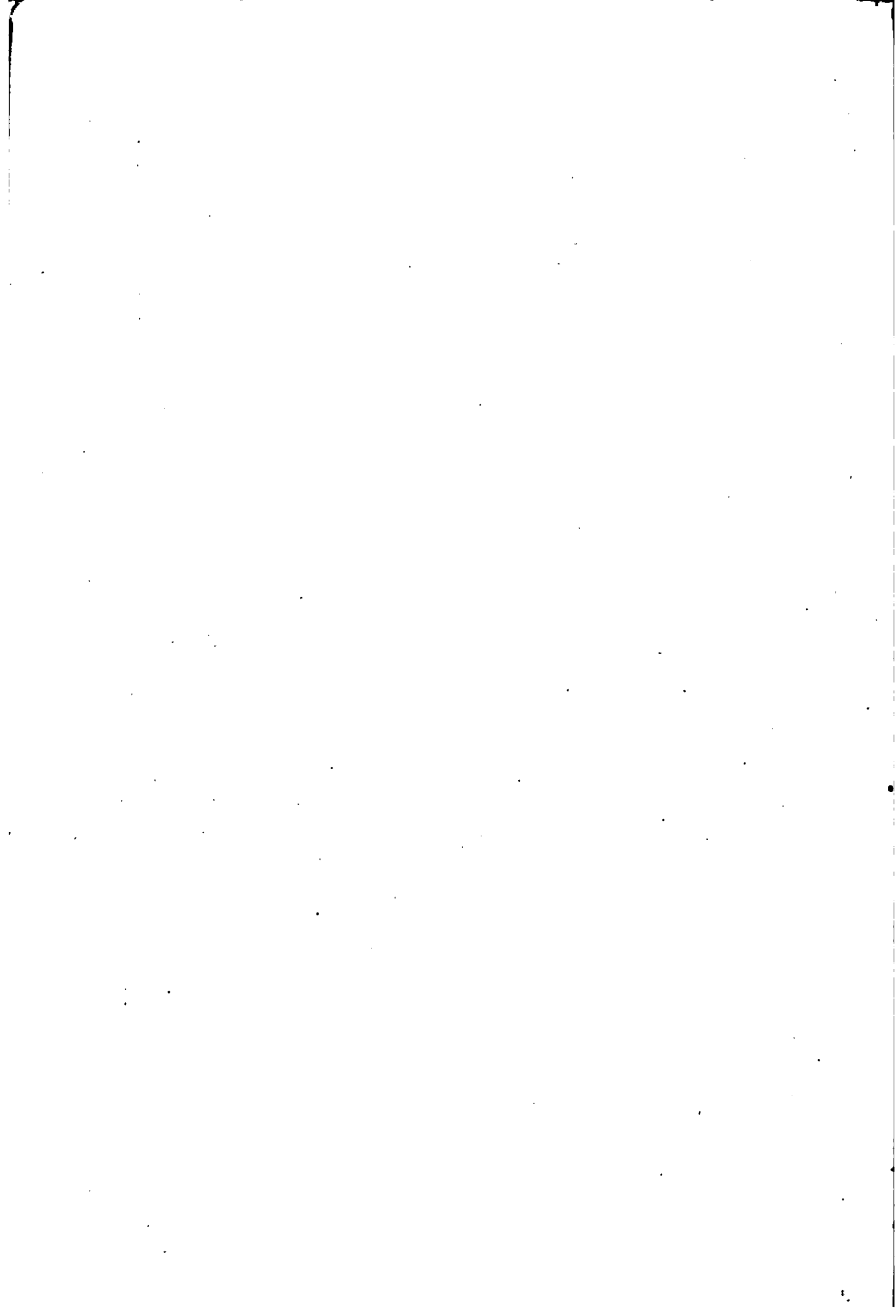
	N	L	S
B G	25' 5 $\frac{1}{2}$ ''	1.40619	649.1879
A B	25' 9 $\frac{1}{4}$ ''	1.41143	665.0757
A G	3' 11 $\frac{3}{4}$ ''	0.60001	15.8545
A E	28' 6 $\frac{1}{4}$ ''	1.45520	813.5865
A C	38' 2 $\frac{1}{2}$ ''	1.58260	1462.7740
tang. $a = b_1$	0' 10 $\frac{1}{2}$ ''	9.95099	0.7978
sec. a	1' 4 $\frac{1}{2}$ ''	0.12740	1.7978
A F	16' 3 $\frac{1}{2}$ ''	1.21092	264.1471
I C	12' 3 $\frac{1}{2}$ ''	1.08887	150.5734
A H	21' 9 $\frac{1}{4}$ ''	1.33832	474.9902
H F	14' 6 $\frac{1}{2}$ ''	1.16191	210.7790
H C	16' 5 $\frac{1}{4}$ ''	1.21627	270.7910
H I	10' 11 $\frac{1}{2}$ ''	1.03986	120.1422

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